INTACT uPVC

Where Precision Meets Elegance

Test Reports

ISI

मानक: पथप्रदर्शक:
Bureau of Indian Standards

CIPET सि पे ट
probe • perform • practice • Plastics

RoHS COMPLIANT

REACH COMPLIANCE

CERTIFIED ISO 9001:2015 COMPANY

Intact uPVC Systems
Dhandapani Spun Bond
3/104-E, Pudhupalayam, Nasiyanur, Erode
Tamil Nadu 638107
+91 9770000631
Sales@intactupvc.com
www.intactupvc.com

Date, 06 August, 2024

Dear Sir,

I am writing to introduce Intact uPVC Systems, a brand of Dhandapani Spun Bond, dedicated to manufacturing high-quality, lead-free uPVC profiles. At Intact uPVC Systems, we pride ourselves on our commitment to quality and innovation. Our profiles are designed to meet the highest standards of durability and performance, ensuring the best value for our customers.

Quality and Certifications:
Our uPVC profiles are crafted with precision and undergo rigorous quality checks to guarantee their performance. We are proud to have obtained several prestigious certifications, reflecting our dedication to quality and compliance with international standards. Our certifications include:

- ISI License
- BIS Certification
- CIPET Certification
- TÜV Rheinland ROHS Certification
- TÜV Rheinland REACH Certification
- ISO 9001:2015 Certification
- National Test House Certification

These certifications underscore our commitment to delivering safe, reliable, and environmentally friendly products to our customers.

Manufacturing Capacity and Innovation:
Manufactured at our state-of-the-art plant at Dhandapani Spun Bond, located at 3/104-E, Pudhupalayam, Nasiyanur, Erode, Tamil Nadu 638107, our uPVC profiles benefit from the latest technology and stringent quality control measures. Our plant is fully automated, from the mixing unit to production. This automation ensures consistent quality, higher efficiency, and reduced production times, enabling us to meet the growing demands of the market with a manufacturing capacity of 600 tons per month.

Raw Materials and Differentiation:
To ensure we offer the best products, we source our raw materials from leading companies in South Korea, Japan, Malaysia, USA, and Germany. This global sourcing strategy allows us to select the highest quality materials available, ensuring superior product performance.
Our approach to material selection is driven by a commitment to excellence. We meticulously choose materials that provide the optimal balance of strength, durability, and aesthetic appeal. The high-grade polyvinyl chloride (PVC) resin we use is carefully chosen for its exceptional stability and resistance to environmental degradation. Additionally, the stabilizers, impact modifiers, and fillers we incorporate are sourced from top-tier suppliers to enhance the overall performance of our profiles.
What differentiates Intact uPVC profiles from others in the market is our unwavering focus on quality and innovation. By leveraging the best raw materials and advanced manufacturing techniques, we produce profiles that are not only robust and long-lasting but also aesthetically pleasing. Our products are designed to withstand harsh climatic conditions, ensuring they remain in excellent condition for years.

Color Laminated Profiles:
We specialize in manufacturing color laminated profiles using the Renolit FX series, which we import exclusively from Germany. This ensures that our laminated profiles not only look exceptional but also stand the test of time.

Quality Assurance and Inspection:
Our commitment to quality is further demonstrated by our BIS approved lab for quality inspection. This facility allows us to conduct rigorous tests and inspections on our products, ensuring they meet the highest standards of performance and durability. Our comprehensive 20-year product performance warranty on our uPVC profiles is a testament to our confidence in the longevity and reliability of our products.

Attachments:
For your reference, we have attached copies of all our certifications and the product performance warranty certificate to this letter. We hope this provides you with a comprehensive understanding of our capabilities and our commitment to excellence.
Thank you for considering Intact uPVC Systems as your trusted partner for high-quality uPVC profiles. We look forward to the opportunity to work with you and contribute to your projects with our superior products.

Should you have any questions or require further information, please do not hesitate to contact me directly.

Senthil Murugan V
CEO
Intact uPVC Systems

भारतीय मानक ब्यूरो /
BUREAU OF INDIAN STANDARDS

मानक चिह्न के उपयोग के लिए अनुज्ञप्ति
Licence for the use of STANDARD MARK

लाइसेंस सं. सीएम/एल/ Licence No. **CM/L - 6500084414**

यह ब्यूरो, भारतीय मानक ब्यूरो अधिनियम, 2016 (11 of 2016) द्वारा प्रदत्त शक्तियों के आधार पर

मेसर्स दन्डापानी स्पन बोन्ड
3/104-E, कांजिकोविल रोड, पुदुपालयम,
मुल्लमपट्टी पोस्ट, नसियानूर,
ईरोड – 638107.

को (जिसे इसमें आगे 'अनुज्ञप्तिधारी' कहा गया है) इसकी प्रथम अनुसूची के पहले स्तंभ में विनिर्दिष्ट मानक चिह्न का, इस अनुसूची के तीसरे स्तंभ में दी गई किस्मों पर, उपयोग करने के लिए यह अनुज्ञप्ति प्रदान करता है। इन उत्पादित किस्मों पर चिह्न का उपयोग उक्त अनुसूची के द्वितीय स्तंभ में समय-समय पर संशोधित अथवा पुनरीक्षित/ संदर्भित संबद्ध भारतीय मानक (मानकों) के अनुसार/अनुरूप विनिर्मित हो।

By virtue of the power conferred on it by the Bureau Of Indian Standards Act, 2016 (11 of 2016) the BUREAU hereby grants to

M/s. DHANDAPANI SPUN BOND
3/104-E, KANJI KOVIL ROAD, PUDUPALAYAM,
MULLAMPATTI POST, NASIYANUR,
ERODE- 638107.

(hereinafter called 'the Licensee) this Licence to use the Standard Mark set out in the first column of the First Schedule hereto, upon or in respect of the varieties set out in the third column of the said Schedule which is manufactured in accordance with/conforms to the related Indian Standard(s) referred to in the second column of the said Schedule as from time to time amended or revised.

2. इस अनुज्ञप्ति में अनुबंध अनुज्ञप्ति की शर्तों के लिए अनुज्ञप्तिधारी उत्तरदायी हैं। यह अनुज्ञप्ति पहली अनुसूची में यथा-उल्लिखित नाम, कारखाना के पते और अवधि के लिए विधिमान्य होगा और इसे स्कीम-1 में निर्दिष्टानुसार नवीकृत कराया जा सकता है।

2. This Licence carries obligations on part of the licensee as conditions of licence which are given in Annexure attached herewith. This licence shall be valid for the name, factory address and period as mentioned in the Schedule and may be renewed as specified in the Scheme-I.

अनुसूची/ SCHEDULE

(अनुज्ञप्ति सं सीएम/एल / Licence No.CM/L- 6500084414)

नाम	:	मेसर्स दन्डापानी स्पन बोन्ड
Name	:	M/s. Dhandapani Spun Bond
कारखाने का पता	:	3/104-E, कांजिकोविल रोड, पुदुपालयम, मुल्लमपट्टी पोस्ट, नसियानूर, ईरोड – 638107.
Factory Address	:	3/104-E, Kanji Kovil Road, Pudupalayam,Mullampatti Post, Nasiyanur,Erode- 638107.
विधिमान्यता	:	दो जुलाई दो हज़ार चौबीस से एक जुलाई दो हज़ार पच्चीस
Validity	:	Second July Two Thousand Twenty Four to First July Two Thousand Twenty Five.

मानक चिह्न/ Standard Mark	भारतीय मानक/ Indian Standard	अनुज्ञप्ति का विषय क्षेत्र/ Scope of Licence	मुहरांकन शुल्क/ Marking Fee
(1)	(2)	(3)	(4)
IS 17953 CM/L-6500084414	IS 17953: 2023 UPVC Profiles for Windows And Doors Specification	UPVC PROFILES FOR WINDOWS AND DOORS, Mono Extrusion, Drawing No 23 with profile identification code VVI260-1020.	एक वर्ष की प्रचालन अवधि के दौरान न्यूनतम मुहरांकन फीस ₹ 110000.00 के साथ सभी इकाईयों के लिए ₹ 14.30 प्रति इकाई | इकाई: 1 MT ₹ 14.30 per unit for all units with a Minimum Marking Fee of ₹ 110000.00 during an operative period of one year Unit: 1 MT एक प्रचालन वर्ष के लिए न्यूनतम चिह्नांकन शुल्क अग्रिम में देय होगी जो अगले नवीकरण में अग्रनीत होगी। Minimum marking fee for one operative year payable in advance which will be carried over to next renewal(s)

आज दो जुलाई दो हज़ार चौबीस को हस्ताक्षरित तथा मोहरबंद किया गया।

Signed, Sealed and Dated this Second July Two Thousand Twenty Four.

कृते भारतीय मानक ब्यूरो / for Bureau Of Indian Standards

V Gopinath

Digitally signed by V Gopinath
Date: 2024.07.02 15:44:25 +05'30'

(वी. गोपीनाथ / V. Gopinath)

वैज्ञानिक- जी एवं प्रमुख / Scientist-G & Head

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Coimbatore Branch Office

Address: 3rd Floor, BSNL D Tax Building, Race Course, Coimbatore-641018.
Phones: 0422-2240141, 2249016, 2245984
E-Mail: cbto@bis.gov.in
Web: http://www.bis.gov.in

हमारासंदर्भ/Our Ref: **CM/L- 6500084414** दिनांक/Date: **02-07-2024**

विषय /Subject: Grant of BIS Certification Marks Licence No. CM/L- **6500084414** as per **IS 17953:2023**

M/s. DHANDAPANI SPUN BOND,
3/104-E, KANJI KOVIL ROAD, PUDUPALAYAM,
MULLAMPATTI POST, NASIYANUR,
ERODE- 638107.

प्रियमहोदय/Dear Sir,

With reference to your application, we are pleased to inform you that the Certification Marks Licence has been granted to you to use the Standard Mark in respect of the followings:

Product: **UPVC Profiles for Windows And Doors Specification**

IS No: **17953:2023**

Type/Size/Grade/Variety covered under licence:

UPVC PROFILES FOR WINDOWS AND DOORS, Mono Extrusion, Drawing No 23 with profile identification code VVI260-1020.

1. The Licence is granted on the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards.

2. The Number assigned to this licence is CM/L- **6500084414,** which has been made operative from **02-07-2024** and is valid upto **01-07-2025.** The licence number should invariably be referred to in your future correspondence. According to Sub-Paragraph (1) & (3) of paragraph 5 of Scheme-I of Schedule-II under Bureau of Indian Standards (Conformity Assessment) Regulation, 2018, the annual licence fee of Rs. **1000/-** and the marking fee for use of Standard Mark as per Annexure-I of Scheme-I of BIS (Conformity Assessment) Regulations, 2018 is payable by you with effect from **02-07-2024** for the period of validity of the licence in advance.

3. Minimum marking fee stipulated in Annexure-I of Scheme-I of BIS (Conformity Assessment) Regulations, 2018 is payable by you regardless of the fact whether you actually mark your product or not with the Standard Mark. Our Receipt No: **AA65PC2024000095** dated **17-04-2024** for the licence fee and the minimum marking fee for the first operative period is already *issued/enclosed/being sent separately.

4. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher shall be payable by you at the time of renewal.

5. With a view to streamlining the reporting of quantity marked, calculation and collections of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal, and on the production marked during twelve months comprising the last three months of the previous operative year, at the time of second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.

6. **The Scheme of Inspection and Testing (SIT) submitted by you and agreed by BIS or the Scheme of Inspection and Testing as specified by BIS*** will have to be implemented by your organization strictly and completely. The supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us as and when these take place.

7. We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product. Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions are maintained. Preferred dimensions may be used as far as possible.

8. On commencement of marking of your product for which you are licenced, you may advertise your product with Standard Mark in various media only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the Standard Mark on your letterheads, publicity literatures etc. will be destroyed/ obliterated.

9. This licence is granted for your manufacturing premises situated at (Address of factory) **3/104-E, KANJI KOVIL ROAD, PUDUPALAYAM,MULLAMPATTI POST, NASIYANUR,ERODE- 638107.** Privileges under the licence shall not be exercised by any other firm company/factory etc. This licence is not transferable in the event of shifting the manufacturing and testing equipment from the licensed premises to some other place, use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by BIS in respect of manufacturing and testing facilities available there and the address of the new premises is endorsed in the licence.

धन्यवाद/ Thank you,

भवदीय/ Yours faithfully,

V Gopinath Digitally signed by V Gopinath Date: 2024.07.02 15:46:30 +05'30'

(वी. गोपीनाथ / V. Gopinath)
वैज्ञानिक- जी एवं प्रमुख / Scientist-G & Head

संलग्नक/Encl: as above.

सिपेट: पेट्रोकेमिकल्स तकनीकी संस्थान (आईपीटी)
रसायन एवं पेट्रोरसायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
गिण्डी, चेन्नई - 600 032.
फोन : 91-44-2225 4701 (6 लाइन)
ई-मेल : chennai@cipet.gov.in
वेब्सइट : www.cipet.gov.in

सिपेट CIPET

CIPET: INSTITUTE OF PETROCHEMICALS TECHNOLOGY (IPT)
Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
Guindy, Chennai - 600 032.
Phone : 91-44-2225 4701 (6 Lines)
E-mail : chennai@cipet.gov.in
Website : www.cipet.gov.in

संदर्भ/Ref: परीक्षण/TR/ 24013313 दिनांक/Date: 21-02-2024

प्रति /To,

DHANDAPANI SPUN BOND
3/104-E, Kanjikovil Road, Pudupalayam, Mullampatti PO,
Nasiyanur, Erode - 638 107

विषय/Sub : Testing of samples-reg.

संदर्भ/Ref : Your letter no. DBS/CIPET/2023-01
Dated: 11-01-2024

महोदय,

कृपया हमारी परीक्षण रिपोर्ट क्रमांक प्राप्त करे। Please find enclosed herewith our Test Report no.	76483	दिनांक dated	21-02-2024

धन्यवाद,

भवदीय

अधिकृत हस्ताक्षरकर्ता

संलग्न : उपर्युक्तानुसार
Encl:1.a/a.

केंद्रीय पेट्रोरसायन अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
पेट्रोकेमिकल्स तकनीकी संस्थान
रसायन एवं पेट्रोरसायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
गिण्डी, चेन्नै - 600 032.
फ़ोन : 91-44-2225 4701-6 फैक्स : 91-44-22254707
ई-मेल : chennai@cipet.gov.in वेब्साइट : www.cipet.gov.in

CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY
INSTITUTE OF PETROCHEMICALS TECHNOLOGY
Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
Guindy, Chennai - 600 032.
Tel : 91-44-2225 4701-6 Fax : 91 - 44 - 22254707
E-mail : chennai@cipet.gov.in Website : www.cipet.gov.in

परीक्षण रिपोर्ट / TEST REPORT

को ज़ारी / Issued to :

DHANDAPANI SPUN BOND
3/104-E, Kanjikovil Road, Pudupalayam, Mullampatti
PO, Nasiyanur, Erode - 638 107

क्र.सं / Sl. No. 34688

रिपोर्ट सं / REPORT NO. : 76483

दिनाक / Date : 21-02-2024

Pages....02....Nos. Part A,B,C & D

संदर्भ / Customer Let. Ref : DBS/CIPET/2023-01 11-01-2024

परीक्षण मानक स्तर के अनुसार परीक्षण रिपोर्ट / TEST REPORT AS PER TEST STANDARD : Refer Part C

भाग - क / PART - A

प्रस्तुत सैंपिल का विवरण / PARTICULARS OF SAMPLE SUBMITTED

अ)	सैंपिल का नाम / a) Name of the Sample	:	Casement Window Sash - as stated by the party.
आ)	सैंपिल प्राप्त होने की तारीख / b) Date of Receipt of sample	:	18-01-2024
इ)	ग्रेड/प्रकार/आकार/वर्ग / c) Grade / variety / type / size / class	:	Nil
ई)	घोषित मूल्य / d) Declared value, If any	:	Nil
उ)	कोड सं. / e) Code No.	:	Nil
ऊ)	बैच सं. एवं निर्माण तारीख / f) Batch No. and Date of Manufacture:		Nil
ऋ)	मात्रा / g) Quantity	:	1 mtr. X 12 nos. & L - 3 NOS
ए)	पेंकिंग की रीति / h) Mode of Packing	:	Packed in Gunny bag
ऐ)	मोहर बंद या नहीं / i) Sealed or not	:	Sealed
ओ)	कोई अन्य सूचना / j) Any other information	:	-

24013313

भाग - ख / PART - B

अनुपूरक सूचनाएँ / SUPPLEMENTARY INFORMATIONS

अ) सैंपिलिंग कार्यवाहियों हेतु संदर्भ / a) Reference to sampling procedure : Sampling not done by this lab

आ) माप करने हेतं लिए गए सहायक दस्तावेज एवं प्राप्त परिणाम
b) Supporting documents for the measurement taken and result derived : As given in Part C

इ) संबंधित कार्य अनुदेशों में निर्धारित के अनुसार परीक्षण रीति से कोई परिवर्तन
c) Deviation from the test method as prescribed in relevant work instructions, if any : No deviation from the standard

केंद्रीय पेट्रोरसायन अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
पेट्रोकेमिकल्स तकनीकी संस्थान
रसायन एवं पेट्रोरसायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
गिण्डी, चेन्नै - 600 032.
फोन : 91-44-2225 4701-6 फैक्स : 91-44-22254707
ई-मेल : chennai@cipet.gov.in वेबसइट : www.cipet.gov.in

CIPET सि पे ट

CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY
INSTITUTE OF PETROCHEMICALS TECHNOLOGY
Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
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परीक्षण रिपोर्ट / TEST REPORT

रिपोर्ट सं / REPORT NO. 76483

क्र.सं / Sl. No. 34688

दिनाक / Date : 21-02-2024

Test Duration:22-01-2024 To 21-02-2024

भाग - ग / PART - C

परीक्षण परिणाम / TEST RESULTS

S. no.	Test Name	Test Method / Standard	Unit	Specified Requirement	Test Value Obtained
1	Vicat Softening Temperature at 5kg load	IS 13360 (Part 6/Sec 1)	°C	≥ 75	80.6
2	Flexural Modulus of Elasticity	IS 13360 (Part 5/Sec 7)	N/mm²	≥ 2200	3045.0
3	Appearance	IS 17953	--	The colour of the profile shall be the same and uniform on all visible surfaces. The surfaces of the profiles shall be smooth and free from pitting, impurities, cavities and other surface defects. The edges of the profiles shall be clean and burr-free.	Complies
4	Colour Measurement	IS 17953	--	L* ≥ 82 -2.5 ≤ a* ≤ 5 -5 ≤ b* ≤ 15	L = 95.01 a = -0.15 b = -0.85
5	Depth (D)	IS 17953	mm	--	33.9
6	Width (W)	IS 17953	mm	--	74.2
7	Sight visible surface wall thickness, Max	IS 17953	mm	--	2.29
8	Non-sight visible surface wall thickness	IS 17953	mm	--	2.14
9	Sight visible surface flatness, Max	IS 17953	mm	0.3	0.08
10	Parallelism, Max	IS 17953	mm	0.5	0.2
11	Straightness	IS 17953	mm	Max. 1	0.08
12	Mass of Profile	IS 17953	g/m	shall not be less than 95 percent of the nominal mass per meter length declared by the manufacturer	1100.0
13	Heat Reversion	IS 17953	%	Main profiles ≤ 2.0; Auxiliary profiles ≤ 3.0;	1.27
14	Resistance to Impact of Falling Mass	IS 17953	--	no more than one test specimen shall show rupture	1 failure was observed out of 10 specimens
15	Visual examination after Heat Ageing at 150° C for 30 min	IS 17953	--	shall not show defects such as blisters, cavities, cracks and surface peel offs on any of the surfaces.	Complies
16	Tensile Bending Test (L-corner)	IS 17953	N	--	795.45
17	Compression Bending Test (L-corner)	IS 17953	N	--	3333.10
18	Density	IS 13360 (Part 3/Sec 10)	g/cc	1.40 to 1.50	1.47

Issued to:
DHANDAPANI SPUN BOND
3/104-E, Kanjikovil Road, Pudupalayam, Mullampatti PO, Nasiyanur, Erode - 638 107

LetterRef.: *DBS/CIPET/2023-01*
Dated: *11-01-2024*

21/02/2024
AUTHORISED SIGNATORY
Dr. Radhashyam Giri
Technical Officer

AUTHORISED SIGNATORY
S. Udhayamalar,
Sr. Technical Officer

रिपोर्ट सं / REPORT NO. **76483** परीक्षण परिणाम / TEST RESULTS दिनाक /Date: **21-02-2024**

S. no.	Test Name	Test Method / Standard	Unit	Specified Requirement	Test Value Obtained
19	Charpy Impact resistance of main profile	IS 13360 (Part 5/Sec 5)	kJ/m²	If Sight Visible Surface Thickness < 2.5 ≥ 65	91.29

Part-D REMARKS

1. This Test report/Certificate is issued only for the samples submitted to CIPET
2. The Results stated above related only to the items tested.
3. The Quality of the subsequent production lot has to be ensured by the purchaser.
4. This report, in full or part, shall not be reproduced, published, advertised, used for any legal action, Unless prior permission has been secured.
5. Selection of samples for individual test has been done in accordance with respective clauses of IS.
6. Details of test sub-contracted: Nil

End Of Report*

Issued to:
DHANDAPANI SPUN BOND
3/104-E, Kanjikovil Road, Pudupalayam, Mullampatti PO, Nasiyanur, Erode - 638 107
LetterRef.: *DBS/CIPET/2023-01*
Dated: *11-01-2024*

21/02/2024
AUTHORISED SIGNATORY
Dr. Radhashyam Giri
Technical Officer

AUTHORISED SIGNATORY
S. Udhayamalar

सेन्ट्रल इंस्टिट्यूट ऑफ पेट्रोकेमिकल्स इंजीनियरिंग टेक्नॉलाजी (सिपेट)
{ पूर्व सेन्ट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग & टेक्नॉलाजी (सिपेट)}
उत्पाद परीक्षण प्रयोगशाला
यूनिट एकंग - सिपेट सी एस टी एस, मधुरै
सिडको औदयोगिकएस्टेट
केपुदुर, मधुरै - 625 007.
फोन : 0452-2567098
ई-मेल : testing-madurai@cipet.gov.in
वेब्सइट :www.cipet.gov.in

सिपेट CIPET

CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY (CIPET)
(Formerly Central Institute of Plastics Engineering & Technology (CIPET)
Product Testing Laboratory
Unit of CIPET : CSTS Madurai.
SIDCO Industrial Estate
K.Pudur, Madurai - 625 007.
Phone : 0452 - 2567098
E-mail : testing-madurai@cipet.gov.in
Web : www.cipet.gov.in

परिक्षण रिपोर्ट / TEST REPORT

CIPET/MDU/PTL/TR/2024-25/2025

Date: 13.09.2024

Issued to : **M/s. Dhandapani Spun Bond,**
3/104-E, Kanjikovil Road,
Pudhupalayam, Mullampatti (po),
Nasiyanur, Erode – 638 107.

1476

Ref. No. : Lr Dated: 16.08.2024
TEST REPORT : As Per IS 17953:2023
REPORT NO : 11829

PART A: PARTICULARS OF SAMPLES SUBMITTED

a)	Nature of Sample	: U-PVC Window and Door Profile (As stated by party)
b)	Grade/Variety/Type/Size/Class etc	: U-PVC Profile (As stated by party)
c)	Brand name if any	: INTACT
d)	Declared values if any	: Nil
e)	Code No.	: Nil
f)	Batch No. and date of Manufacture	: Nil
g)	Quantity	: 10 Nos
h)	Mode of Packing	: Packed
i)	Date of receipt	: 17.08.2024
j)	Seal	: Nil
k)	I.O's signature on the sample	: Nil
l)	Test Duration	: 17.08.2024 – 02.09.2024
m)	Any other Information	: Product Name: Casement Window Sash 60

PART – B: SUPPLEMENTARY INFORMATIONS

a)	Reference to sampling procedure	: Supplied by the Party
b)	Supporting documents for the measurements taken and results derived	: Nil
c)	Deviation from the test methods as Prescribed in relevant IS/Work Instructions, if any	: Nil

सेन्ट्रल इंस्टिट्यूट ऑफ पेट्रोकेमिकल्स इंजीनियरिंग टेक्नॉलाजी (सिपेट)
{ पूर्व सेन्ट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग & टेक्नॉलाजी (सिपेट)}
उत्पाद परीक्षण प्रयोगशाला
यूनिट एक्सिंग - सिपेट सी एस टी एस, मधुरै
सिडको औदयोगिकएस्टेट
केपुदुर, मधुरै - 625 007.
फोन : 0452-2567098
ई-मेल : testing-madurai@cipet.gov.in
वेब्सइट :www.cipet.gov.in

सिपेट CIPET

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Product Testing Laboratory
Unit of CIPET : CSTS Madurai.
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K.Pudur, Madurai - 625 007.
Phone : 0452 - 2567098
E-mail : testing-madurai@cipet.gov.in
Web : www.cipet.gov.in

परिक्षण रिपोर्ट / TEST REPORT

Date: 13.09.2024

Issued to : **M/s. Dhandapani Spun Bond,**
3/104-E, Kanjikovil Road,
Pudhupalayam, Mullampatti (po),
Nasiyanur, Erode – 638 107.
Ref. No. : Lr Dated: 16.08.2024
TEST REPORT : As Per IS 17953:2023
REPORT NO : 11829

PART-C
TEST RESULTS

Sl. No.	Cl. No	Tests	Test Method	Unit	Specified Requirement	Result Obtained
1	5.2	Visual Appearance	IS 17953:2023	--	The colour of the profile shall be the same and uniform on all visible surfaces. The surfaces of the profiles shall be smooth and free from pitting, impurities, cavities and other surface defects. The edges of the profile shall be clean and burr free	Confirm
2.	5.3 5.3.1	Dimensions	17953:2023			
		i) Depth		mm	--	60.09
		ii) Width		mm	--	74.14
		iii) Sight visible surface wall thickness		mm	--	2.08
		iv) Non-sight visible surface wall thickness		mm	--	2.04
3.	5.3.2	Wall Thickness of Main Profile		mm	--	2.15
4.	5.4	Mass of Profile		g/m	--	1020

सेन्ट्रल इंस्टिट्यूट ऑफ पेट्रोकेमिकल्स इंजीनियरिंग टेक्नॉलाजी (सिपेट)
{ पूर्व सेन्ट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग & टेक्नॉलाजी (सिपेट)}
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ई-मेल : testing-madurai@cipet.gov.in
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परिक्षण रिपोर्ट / TEST REPORT

Date: 13.09.2024

Issued to : **M/s. Dhandapani Spun Bond,**
3/104-E, Kanjikovil Road,
Pudhupalayam, Mullampatti (po),
Nasiyanur, Erode – 638 107.

Ref. No. : Lr Dated: 16.08.2024
TEST REPORT : As Per IS 17953:2023
REPORT NO : 11829

Sl. No.	Cl. No	Tests	Test Method	Unit	Specified Requirement	Result Obtained
5.	5.8 5.8.1	Weldability Tensile Bending Test	IS 17953:2023 Annex F	N/mm^2	Min. 25	25.34
6.	5.8.2	Compression Bending Test	--	N/mm^2	Min. 35	35.16
7.	5.11	Density	IS 17953:2023/ IS 13360 (pt-3/sec 10)	g/cm^3	Shall be between 1.40 and 1.50	1.47
*8.	6.5	Colorimetric co-ordinates	IS 17953:2023	--	L*≥ 82 a* (-) 2.5 to (+) 5 b* (-) 5 to (+) 15	94.79 0.32 (-)1.03

PART-D: REMARKS:

NB: 1. The Test Report/ Certificates Issued only for the samples submitted to CIPET
2. The results stated above relate only to the items tested.
3. The Quality of the subsequent production of lot has to be ensured by the purchaser
4. This Test Certificate shall not be reproduced except in full without the written approval of the Laboratory.
5. *Details of tests sub-contracted: SI. No: 08

End of Report

AUTHORISED SIGNATORY
Dr.Nalini R
Manager (T)

AUTHORISED SIGNATORY
Dr.K.Prakalathan
Director & Head

Atmy Analytical Labs Pvt. Ltd.

ULR No. :

DOC No. : 12405160004
Telephone : +91 9910808996
FAX : -
E-Mail : info@atmylabs.com
BO Code : CTBO

I-30,DLF Industrial Area, Phase-1, Faridabad, Faridabad, Haryana, India - 121003

Test REPORT AS PER : IS 17953 (2023)

QR Code/Barcode : 100000639602

REPORT NO : CTBO/70360/20240510/AS/1_1 DATE : 25 Jun, 2024

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address	:	-
b) Nature of sample	:	AS
c) Grade/Variety/Type/Class Size etc	:	Mono extrusion, Casement window sash, drawing No 23, Ix- 327892.2, e-37, mass - 1.15kg/m
d) Declare values, if any	:	Mono extrusion, Casement window sash, drawing No 23, Ix- 327892.2, e-37, mass - 1.15kg/m
e) Batch No. & Date of Manufacture	:	Trail /
f) Quantity	:	1mx 10 nos, welded L corners for tensile and compression tests each 3 nos
g) Date of Receipt	:	16 May, 2024
h) BIS Seal	:	Verified by Sample Cell
i) IO's Signature	:	Verified by Sample Cell
j) Any other Information / Expiry Date, If any	:	uPVC profiles for windows and doors /
k) Date of Commencement of Testing	:	16 May, 2024
l) Date of Completion of Testing	:	25 Jun, 2024
m) Section Code	:	24MAD3AP
n) Section Report No.	:	24MAD3AP_1
o) Report Type	:	New
p) Reference Report No.	:	
q) Remarks	:	

Nitin Chauhan
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 25 Jun, 2024 15:32 PM

1.

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PART B. SUPPLEMENTARY INFORMATION

1.	Reference to sampling procedure, wherever applicable.	Not Applicable
2.	Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3.	Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
3.	NABL Report required ?	-

Yashdeep Kamal Kumar
OIC Mechanical
(Authorized Signatory)
Authorized on: 25 Jun, 2024 15:32 PM

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	Cl. No.5.1.1	UV Resistant Virgin Material	As per Annexure B	-	-	-	The complete test report is attached.

Yashdeep Kamal Kumar
OIC Mechanical
(Authorized Signatory)
Authorized on: 25 Jun, 2024 15:32 PM

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PART D. REMARKS

Yashdeep Kamal Kumar
OIC Mechanical
(Authorized Signatory)
Authorized on: 25 Jun, 2024 15:32 PM

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ATMY ANALYTICAL LABS PVT.LTD.
I-30, DLF Industrial Area, Phase-1, Faridabad (Haryana) INDIA
Phone: +91-129-4019544
info@atmylabs.com, www.atmylabs.com

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TEST REPORT

Report No.: **24MAD3AP**

Date: 25-06-2024

Issued To:

M/s BUREAU OF INDIAN STANDARDS (CTBO)
3RD FLOOR BSNL DTAX BUILDING, RACE COURSE, COIMBATORE
- 641018

Sample Description	:	SAMPLE CODE - CTBO/70360/20240510/AS/1, QR CODE - 100000639602
Sample Received Date	:	16-05-2024
Sample Drawn By	:	Client
Specification	:	--
Test Requested	:	TEST AS PER IS 17953:2023
Test Method	:	Refer to Attached Pages.
Test Result	:	Refer to Attached Pages.

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I-30, DLF Industrial Area, Phase-1, Faridabad (Haryana) INDIA
Phone: +91-129-4019544
info@atmylabs.com, www.atmylabs.com

• Testing
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TEST REPORT

Report No.: **24MAD3AP** Date: 25-06-2024

PART –A: PARTICULERS OF SAMPLE SUBMITTED:

Nature of sample	:	UPVC Profile for Windows and Doors
Grade/Variety/Type/Class	:	UPVC Profile - mono extrusion Casement window sash, drawing No 23
Brand Name, if any	:	-
Declared Value, if any	:	Width – 74 mm, Depth – 34 mm, Thickness - 2.5 mm, Mass of profile 1.15 kg/m, Deviation from straightness – 1mm max. W-327892.2, e-37
Code No.	:	CTBO/70360/20240510/AS/1
Designation Code	:	-
Batch No. & Date of Mfg.	:	Trail & 08 May, 2024
Quantity of sample received	:	10 nos. of 1m profile, 3 nos. of welded corner, 3 nos. of welded T joints
Condition of sample received	:	Satisfactory
Mode of packing	:	-
Manner of seal	:	-
Manner of Signature	:	-
Other information if any	:	-

PART-B: SUPPLIMENTARY INFORMATION:

a) Reference to the sampling procedure, wherever applicable: N/A
b) Supporting to the documents for the measurement taken and result derived like graph, table, sketches, and/or photographs as appropriate to test report, if any [To be attached]: N/A
c) Deviation from the test methods as prescribed in relevant ISS/work instruction, if any: N/A

PART – C: TEST RESULTS:

TEST REPORT AS PER IS 17953:2023

I. Chemical & Mechanical

Test Method: IS 17953:2023 **Test performed on: 20-05-2024 to 25-06-2024**

Sr. no	Clause No.	Test (s)	Unit	Requirement	Result obtained
1	5.1.1	**UV Resistant Virgin Material**	--	UV resistant / Non UV resistance	NA
		Vicat Softening Temperature as per IS 13360 (Part 6/Sec 1)	°C	≥ 75.0 Average ≥ 73.0 Individual	Na
		Flexural Modulus of Elasticity as per IS 13360 (Part 5/Sec 7)	N/mm^2	≥ 2200.0 Average ≥ 2000.0 Individual	NA
		Tensile Impact Strength as per IS 13360 (Part 5/Sec 27)	kJ/m^2	≥ 600.0 Average ≥ 450.0 Individual	NA
2	5.2	**Appearance of uPVC Profile**	--	The colour of the profile shall be the same and uniform on all visible surfaces,	Satisfactory
		L	--	≥ 82	95.77
		a	--	- 2.5 ≤ a*≤ 5	1.23
		b	--	- 5 ≤ b*≤ 15	0.63

TEST REPORT

Report No.: **24MAD3AP** Date: 25-06-2024

Sr. no	Clause No.	Test (s)	Unit	Requirement	Result obtained
3	5.3	**Dimensions and Tolerances**			
		Depth (D)	mm	34.0 ± 0.3	34.23
		Width (W)	mm	74.0 ± 0.5	74.18
		Sight visible surface wall thickness	mm	2.5 (-10 % max)	2.34
		Sight visible surface flatness,	mm	0.3 max.	0.20
		Parallelism	mm	0.5 max.	0.35
4	5.3.4	Straightness	mm	1 max.	0.60
5	5.4	**Mass of profile**	%	Not less than 95	99.13
6	5.5	**Heat Reversion**			
		Main profile	%	≤ 2.0	0.92
		Difference of heat reversion	%	≤ 0.4	0.14
		Auxiliary profiles	%	NA	NA
7	5.6	**Resistance to Impact of Falling Mass**	--	No more than one test specimen shall show rupture in the tested external sight visible surface. For co-extruded uPVC profiles, delamination of co-extruded layer shall be considered as a failure	No failure observed
8	5.7	**Heat Ageing**	--	The profiles shall not show defects such as blisters, cavities, cracks and surface peel offs on any of the surfaces. For co-extruded uPVC profiles, delamination of co-extruded layer shall be considered as a failure.	Satisfactory
9	5.8	**Weldability**			
	5.8.1	**Tensile Bending Test**	N/mm^2	≥ 20 Individual value > 25 Avg. value	25.4 28.0
	5.8.2	**Compression Bending Test**	N/mm^2	≥ 28 Individual value > 35 Avg. value	35.2 38.0

ATMY ANALYTICAL LABS PVT.LTD.
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Phone: +91-129-4019544
info@atmylabs.com, www.atmylabs.com

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TEST REPORT

Report No.: **24MAD3AP** Date: 25-06-2024

Sr. no	Clause No.	Test (s)	Unit	Requirement	Result obtained
10	5.9 Table 3	**Charpy Impact Strength** (before artificial Weathering)	kJ/m^2	≥ 65	68.2
11	5.10.3 Table 3	**Charpy Impact Strength** (after artificial Weathering)	kJ/m^2	≥ 52	Test Under Process
		Max. Impact of Reduction (after artificial Weathering)	%	20	Test Under Process
12	5.10.4	**Colour Fastness** (after artificial Weathering)	--	ΔE - ≤ 5 Δb- ≤ 3	Test Under Process
13	5.11	**Density**	g/cm^3	1.40 to 1.50	1.45

PART – D: REMARKS: The above submitted sample/product conforms to the requirements of IS 17953:2023 with respect to above test only.

Note:
1) Selection of samples for individual test have been done in accordance with respective clauses of IS 17953:2023
2) Details of sub-contracted: Nil
3) Remnant samples will be disposed off after 03 months from the date of issue of test report.

----------End of Report----------

ATMY ANALYTICAL LABS PVT. LTD. FARIDABAD

Rahul
ASSISTANT MANAGER- TESTING
Authorised Signatory

Authentication: To Check authenticity of Test report (s), Scan **QR** code to get original data.

भारत सरकार **Government of India**
राष्ट्रीय परीक्षण शाला (द.क्षे.)
National Test House (SR)
तारामणी, चेन्नई, तमिलनाडु – 600113
Tharamani, Chennai - 600113, Tamilnadu

सत्यमेव जयते

PART A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No:	एस.आर.एफ. संख्या/SRF Number:	जारी होने की तिथि/Date of issue	कोड सं/QR Code
NTH(SR)/RPPT/24/4487_1	**NTH(SR)/RPPT/24/4487**	**06 Aug, 2024**	**: NTH240059882**

a) जिसे जारी करना है/Issued To	:	Dhandapani Spun Bond
b) पता/Address	:	3/104-E Pudhupalayam Mullampatti Post Nasiyanur, Erode, Erode, Tamil Nadu, India - 638107
c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.	:	TR/SR/24/2402 - 14 Jun, 2024
d) नमूना मुहरबंद स्थिति/Sample Sealed Status	:	Not Applicable
e) परीक्षण सामग्री का विवरण/Description of Test item	:	INTACT uPVC
f) नामपद्धति का विवरण/Description of Nomenclature	:	Casement Window Sash - 60
g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)	:	Cust Spfn UPVC Window Profile - UPVC Window Profile
h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item	:	25 Jul, 2024
i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests	:	From: 05 Aug, 2024 To: 06 Aug, 2024
j) परिमाण/Quantity	:	10.0 METER
k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other Information / Expiry Date, If any	:	All possible tests with relevant standard methods read with IS 17953
l) अनुभाग कोड/Section Code	:	24RP0701P (Pages:4)
m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.	:	24RP0701P_1
n) प्रमाणपत्र का प्रकार/Certificate Type	:	New
o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.	:	
p) टिप्पणी/Remarks	:	Test Report Uploaded.

Antu C D
OIC SAMPLE CELL
Signed on: 06 Aug, 2024 10:53 AM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an approved abstract has been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration Certificate relates only to the sample/ items submitted.

Signature Not Verified
antu.cd@nth.gov.in-
(SampleCell)

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राष्ट्रीय परीक्षण शाला (द.क्षे.)
National Test House (SR)
तारामणी, चेन्नई, तमिलनाडु – 600113
Tharamani, Chennai - 600113, Tamilnadu

Section Certificate No. : 24RP0701P_1

Cust Spfn UPVC Window Profile

PART B. SUPPLEMENTARY INFORMATION

1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certificate, if any.	Not Applicable
3.	सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identification of Test item	White colour Cut pieces Sample of Plastic moulded profile having pre printed sticker pasted on it bearing "INTACT uPVC etc." each length 1000mm x 10nos.
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	Relevant standard methods read with IS 17953/2023 as per firms test request.
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	NA
7.	पर्यावरण की स्थिति/Environmental Conditions	As per standard
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	-
9.	कैलिब्रेशन स्थल/Site of Calibration	NA
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	NA

Mahesh Madhukar Pabalkar
OIC Testing/Calibration RPPT
(Reviewed & Approved by)
Signed on: 06 Aug, 2024 10:39 AM

This is a Computer Generated Report.

Signature Not Verified
mm.pabalkar@nic.in-
(OIC
Testing/Calibration)

Section Report No. : 24RP0701P_1 Cust Spfn UPVC Window Profile

PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	23	Visual Appearance	Relevant method read with IS 17953/2023	-	-	-	The colour of the profile is white & uniform in colour on all visible surfaces. The surfaces of the profile are smooth and free from pitting, impurities, cavities and other visible surface defects. The edges are clean and burr-free. Satisfactory. (Test Method: IS 17953: 2023).
2	22	Flexural Modulus of elasticity	Relevant standard method read with IS 17953/2023	-	-	-	Average= 2438.9 N/ Sq. mm (Test Method: IS 13360 (Part 5/See 7) :1996 read with IS 17953: 2023).
3	18	Heat Reversion Test	Heat Reversion Test on lines of IS 4985:2000	-	-	-	a) Average Heat Reversion= 1.2 %, b) Average Differential Heat Reversion= 0.15 % (Test Method: IS 17953: 2023).
4	17	Impact Strength Charpy	AS per Relevant Standard methods	-	-	-	Charpy Impact Strength (Unnotched, Flatwise)= 37.9 KJ/ Sq. m. (Guided on the lines of IS 13360 (Part 5/Sec 5) :1996 read with IS 17953: 2023).
5	12	Heat Ageing Test	Firms Specification Requirements	-	-	-	No visual defects observed. (Test Method: IS 17953: 2023).
6	11	Resistance to Impact by Falling mass	Firms Specification Requirements	-	-	-	Satisfactory. (Test Method: IS 17953: 2023).
7	5	Vicat Softening Temperature	Relevant standard	-	-	-	80 Deg. C (Test Method: IS 13360 (Part 6/See 1) :1999 read with IS 17953: 2023, at 50 N).
8	2	Density / Specific Gravity	Relevant Standard	-	-	-	Density, g/cc= 1.47 (Test Method: ISO 1183-1:2019 read with IS 17953: 2023).

Signature Not Verified
mm.pabalkar@nic.in-
(OIC
Testing/Calibration)

9	1	Dimension General	With Relevant Standard Methods or Firms Method	-	-	-	a) Depth= 60.0 mm, b) Maximum Width= 74.5 mm, c) Sight Visible surface wall thickness= 2.50 mm, d) Non-sight visible surface wall thickness= 2.30 mm, e) Sight visible surface flatness= 0.2 mm, f) Parallelism= 0.1 mm, g) Straightness= 0.2 mm, h) Mass of Profile= 1150.5 g/m (Test Method: IS 17953: 2023).

Amit Sengupta
Lab Sc. Testing/Calibration RPPT

Mahesh Madhukar Pabalkar
OIC Testing/Calibration RPPT
(Reviewed & Approved by)
Signed on: 06 Aug, 2024 10:39 AM

This is a Computer Generated Report.

Signature Not Verified
mm.pabalkar@nic.in-
(OIC
Testing/Calibration)

Part D.

REMARKS

NA

Notes

-

Mahesh Madhukar Pabalkar
OIC Testing/Calibration RPPT
(Reviewed & Approved by)
Signed on: 06 Aug, 2024 10:39 AM

This is a Computer Generated Report.

Signature Not Verified
mm.pabalkar@nic.in-
(OIC
Testing/Calibration)

End of Report

Test Report No: 0232437787 **Date: 19th December, 2023** **Page: 1 of 8**

Applicant	:	**Dhandapani Spun Bond**
Contact person	:	**E. Vaidesh Prashanth**
Address	:	**No. 3/104-E Pudupalayam, Perundurai- 638107**

Sample Not Drawn By TUV Rheinland (India) Pvt. Ltd

Sample Description	:	UPVC Profile
Buyer	:	**Self-Reference**
Colour Name	:	White
Item Code	:	Intact Nexus, Intact Quantum, Intact Elite, Intact Nova, Intact Ultima, Intact Pragma
End Use	:	/
Country of Destination	:	UK, France
Sample Receiving Date	:	16-12-2023
Testing Period	:	16-12-2023 to 19-12-2023
Delivery Condition	:	Sample received in good condition

Test specification:	***Test result:***
Overall results according to tests performed.	Pass
1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)	Pass
2. Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP)	Pass

According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment

Other Information:

Country of Origin: -
Country of Destination: UK, France

Sample Photo

For and on behalf of
TÜV Rheinland (India) Pvt. Ltd

Manokamna Mishra
Technical Executive
Name/Position

Vikas Pipal
Analytical Lab Manager
Name/Position

Remark: Testing has been performed as per applicant request only on Kira model as all 3 models are same.
Note - Accredited test are report with NABL Symbol.

Discipline	**Group**
NABL - Chemical Testing:	Hazardous & Restricted Chemicals

Test result is drawn according to the kind and extent of tests performed. The laboratory employs simple acceptance rule in making pass or fail decisions on test results with no guard band. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Material Details:

Material List:			
Component No	**Material**	**Colour**	**Location**
M001	Plastic	White	UPVC Profile

Remark:

1. Component(s)/ materials(s) with an area of less than 2mm x2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.
2. For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.
3. Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
4. All other materials will be sampled and tested at one test point representatively.

Test Result :

1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method : Total Cadmium, Lead, Mercury, Chromium
- Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013
Chromium (VI)
- For Metal material - Ref. to IEC 62321-7-1:2015
- For Plastic or Electronic material – Ref. to IEC 62321-7-2:2017
- For Leather material - # Ref. to EN ISO 17075-2:2017

PBBs, PBDEs – Ref. to IEC 62321-6:2015

	Cd	Cr (VI)	Pb	Hg	PBBs	PBDEs
Maximum permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No.	**(%)**					
	Cd	**Cr^**	**Pb**	**Hg**	**PBBs**	**PBDEs**
	RL (%)					
	0.001	**0.001**	**0.001**	**0.001**	**0.01**	**0.01**
M001	<0.001	< 0.001	< 0.001	<0.001	<0.005	<0.005

Remark: Only as per customer request we have done the test:

Abbreviation:

Pb	= Lead
Cd	= Cadmium
Hg	= Mercury
Cr	= Chromium
Cr (VI)	= Chromium (VI)
PBBs	= Total Polybrominated Biphenyls
PBDEs	= Total Polybrominated Diphenyl Ethers
<	= Less than
RL	= Reporting Limit
n.a.	= Not Applicable
^	= The total Chromium have been determined.
%	= Percentage
d	= Detected

(*1) The Chromium (VI) content of metal sample in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.	Chromium (VI) concentration	Qualitative result
Negative	<0.1µg/cm^2	The sample is negative (-ve) for Cr (VI). The Cr (VI) concentration is below the limit of quantification. The coating is considered a non-Cr (VI) based coating.
Inconclusive	≥0.1µg/cm^2 and ≤0.13 µg/cm^2	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.
Positive	>0.13 µg/cm^2	The sample is positive (+ve) for Cr (VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

(*2) The Chromium (VI) content of plastic sample or electronic sample have been confirmed with reference to IEC (62321-7-2:2017

(*3) The Chromium (VI) content of leather sample have been confirmed with reference to EN ISO 17075-1:2017.

(*4) The result was found to be more than the maximum permissible limit.

(*5) Limit of Copper Alloy is 4% & High melting temperature type solders is 85%

2. BBP, DBP, DEHP, DIBP content

Test method: ref. to IEC 62321-8:2017

Test result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

Material No.	(%)			
	BBP	DBP	DEHP	DIBP
	RL (%)			
	0.005	0.005	0.005	0.005
M001	<0.005	<0.005	<0.005	<0.005

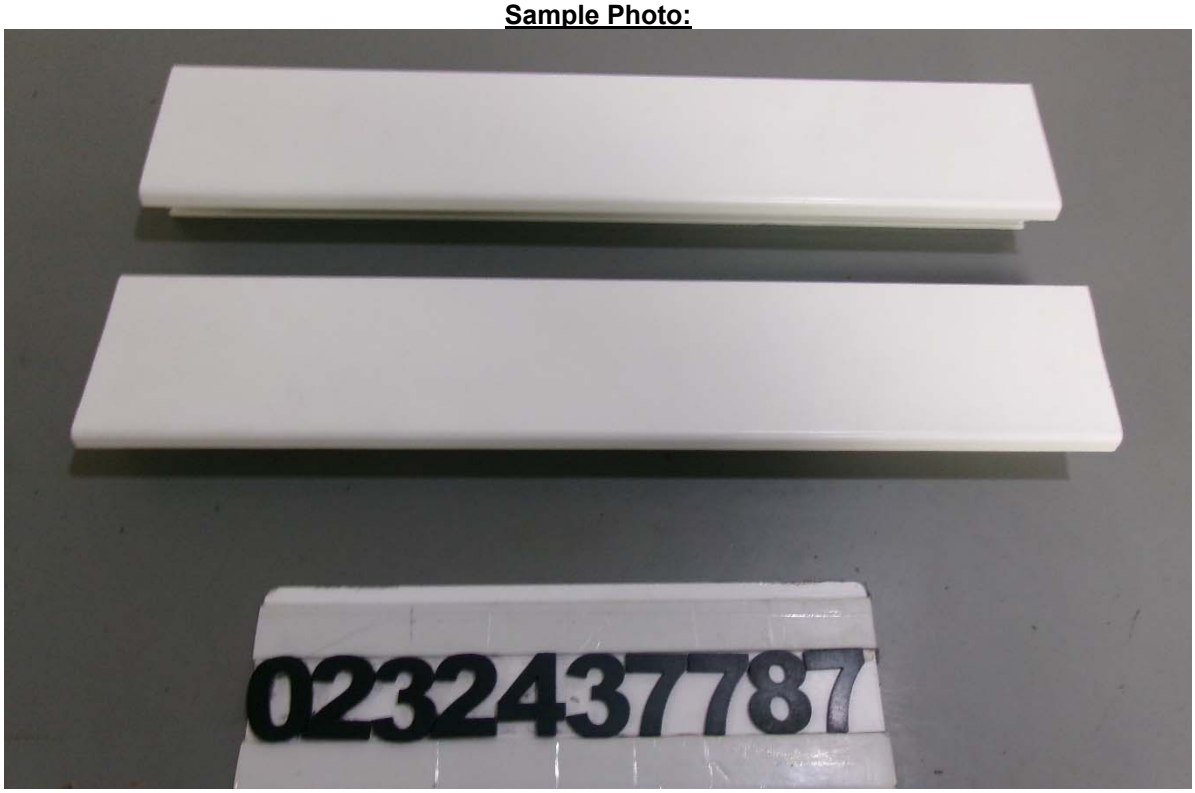
Abbreviation:

BBP	= Benzylbutyl phthalate
DBP	= Dibutyl phthalate
DEHP	= Bis(2-ethylhexyl) phthalate
DIBP	= Diisobutyl phthalate
<	= Less than
RL	= Reporting Limit
%	= percentage

Remark:

* The maximum permissible limit is required from the amendment (EU) 2015/863 of RoHS Directive 2011/65/EU.

Sample Photo:



-End of the Report--

General Terms and Conditions - TÜV Rheinland (India) Pvt Ltd. Laboratory Services

Terms and Conditions:
Costs and expenses included & excluded in the quoted prices. The prices in this quotation are based on the submitted information only and final price may vary after reviewing the actual sample.

"The Terms & Conditions contained in this Quotation shall supersede all other Contractual obligations entered into between the Parties and shall be deemed as final and binding on the Parties. Both TUV and the Customer/Client shall sign out on the Quotation as a confirmation of their Business Understanding and its acceptability to one another".

 # General Service Procedures
This quotation is only for testing as per the standards mentioned herein. If any additional standards or requirements are applicable, a revision to this proposal will be provided for acceptance.

For any reason, if the turnaround time as indicated above is not met by customer either due to product failures, testing failures, modification delays etc., TÜV Rheinland (India) Pvt Ltd will charge additionally and will invoice for the same.

This quotation does not include testing of safety critical components in case they are not already certified. The above-mentioned quotation includes the test laboratory charges for one cycle of testing.

This quotation does not include re-testing the product in case of failures.
The annual charges are subject to periodic revisions. Wherever needed, the client shall provide necessary auxiliary equipment and accessories.
Testing will be carried out at TÜV Rheinland (India) Pvt Ltd laboratory or any other TÜV Rheinland (India) Pvt Ltd recognized laboratories.

Testing may involve some destructive tests. Hence TÜV Rheinland (India) Pvt Ltd will not be liable for any damages caused to the product during testing. During testing, it may be necessary to open, dis-assemble, remove components and also conduct chemical analysis from the sample and this must be acceptable to the customer.
This quotation considers one manufacturing location within India.

All transportation and logistics related to test samples are to be taken care by the manufacturer.

When Laboratories are booked for Developmental Activities, Maximum of 01 sample is allowed in 04 hours duration slot and a Maximum of 03 identical samples are allowed in 08 hours duration slot.

All chamber related services (EMC & Environmental), if cancelled with less than clear 2 working days of notice then 50% of cancellation charges are applicable. Any cancellation with less than one clear working day notice attracts 100% charges.

Decision Rule: The laboratory employs simple acceptance rule in making pass or fail decisions on test results with no guard band.

After completion of testing / certification the samples must be collected from the labs within 1 month after defined retention period, failing which TÜV Rheinland (India) Pvt Ltd will not own any responsibility of safeguarding the samples and will be destroyed according to the lab's discretion.

The client shall ensure TÜV Rheinland employee is provided with a safe work environment for executing the work assignments at client's premises and also provide necessary HSE inductions on workplace hazards, additional activity specific personnel protective equipment as applicable.

The customers visiting TÜV Rheinland premises must ensure comply with TÜV Rheinland's HSE policies & procedures especially related to #Personal Protective Equipment (PPE).
Please contact TÜV Rheinland Representative / Business HSE Coordinator to understand the specific HSE Requirements.

General Terms and Conditions:

1. Scope
1.1 The following terms and conditions apply to agreed services including information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
1.2 If there is any conflict between these terms and conditions and the clients General Terms and Conditions of Business, including the clients Terms and Conditions of purchasing, if any, these terms and conditions shall apply.
No contractual terms and conditions of the client shall form part of the contract unless specifically referred to or incorporated in the documents forming the contract with the client.

2. Quotations
Unless otherwise agreed, all quotations submitted by TÜV Rheinland (India) Pvt Ltd shall be subject to change without notice.

3. Coming into effect and duration of contracts
3.1 The contract shall come into effect for the agreed term upon the quotation letter of TÜV Rheinland (India) Pvt Ltd or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TÜV Rheinland (India) Pvt Ltd. If the client instructs TÜV Rheinland (India) Pvt Ltd without receiving a prior quotation from TÜV Rheinland (India) Pvt Ltd (quotation), TÜV Rheinland (India) Pvt Ltd is # in its sole discretion # entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means)or by performing the requested services.
3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

4. Scope of services
4.1 The scope of the services shall be decided solely by a unanimous declaration issued by both parties. If no such declaration exists, then the written confirmation of order by TÜV Rheinland (India) Pvt Ltd shall be decisive.
4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
4.3 Furthermore, TÜV Rheinland (India) Pvt Ltd is entitled to determine (in its sole discretion) the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based; in particular, no responsibility shall be assumed for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations unless these questions are expressly covered by the contract.
4.5 In the case of inspection work, TÜV Rheinland (India) Pvt Ltd shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

Effective date: **01.03.2023**

5. Performance periods/dates
5.1 The contractually agreed periods and dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if confirmed as binding by TÜV Rheinland (India) Pvt Ltd in writing.
5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland (India) Pvt Ltd. This also applies, even without express approval by the client, to all extensions of agreed dates for performance not caused by TÜV Rheinland (India) Pvt Ltd.

6. The clients obligation to cooperate
6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland (India) Pvt Ltd.
6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions.
6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information or lack of proper cooperation. Even where a fixed or maximum price is agreed, TÜV Rheinland (India) Pvt Ltd shall be entitled to charge extra for such additional expense.

7. Invoicing of work
7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs incurred. If no payment is agreed in writing, invoicing shall be in accordance with the TÜV Rheinland (India) Pvt Ltd. Price list valid at the time of performance.
7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
7.3 If the execution of an order extends over more than one month and the value of the contract or the
agreed fixed price exceeds €2,500.00) converted into Indian Rupees at the prevailing exchange rates TÜV Rheinland (India) Pvt Ltd may demand payments on account or in instalments.

8. Payment terms
8.1 All invoice amounts shall be due for payment on receipt of the invoice, subject only to statutory deductions as per applicable tax laws. No discounts shall be granted.
8.2 For down payment please refer Payment terms in the last page.
8.3 Payments shall be made to the bank account of TÜV Rheinland (India) Pvt Ltd through demand draft payable at Bangalore favoring "TÜV Rheinland (India) Pvt. Ltd." You may use our bank connections mentioned below:

Bank Connection:
DEUTSCHE BANK
No. 26-27, Raheja Towers, M.G. Road, Bangalore
Account No. 2046324-00-0, SWIFT Code: DEUTINBBBGL
IFSC Code: DEUT0797BGL
HSBC BANK
The Hongkong and Shanghai Banking Corporation Ltd
No.7, Mahatma Gandhi Road, Bangalore - 560 001.
Account No: 072-669229-001, IFSC: HSBC0560002
Swift: HSBCINBB

Note: In the event of RTGS/NEFT payment made to our Account please send the intimation to accounting@ind.TÜV.com, else the amount may not be credited to your account.

8.4 In cases of default of payment, TÜV Rheinland (India) Pvt Ltd shall be entitled to claim default interest at a rate of 18% p.a. At the same time, TÜV Rheinland (India) Pvt Ltd deserves the right to claim further damages.
8.5 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland (India) Pvt Ltd shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract. TÜV Rheinland (India) Pvt Ltd also reserves the right to publish the names of defaulting clients in public domain as may be fit and also meet any other requirements as prescribed by accreditation agencies/bodies.
8.6 The provisions set forth in article. (8.4) shall also apply in cases involving returned cheques, cessation of payment, and commencement of insolvency proceedings against the client assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.
8.7 Objections to the invoices of TÜV Rheinland (India) Pvt Ltd shall be submitted in writing within two weeks of receipt of the invoice.
8.8 TÜV Rheinland (India) Pvt Ltd shall be entitled to demand appropriate advance payments.
8.9 TÜV Rheinland (India) Pvt Ltd shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland (India) Pvt Ltd shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have any special right of termination. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contractual relationship by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon expiry of the above period.
8.10 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland (India) Pvt Ltd.

9. Acceptance
9.1 Any part of the work ordered which is complete in itself may be presented by TÜV Rheinland (India) Pvt Ltd. for acceptance as an instalment. The client shall be obliged to accept it immediately.
9.2 If the client fails to fulfil its acceptance obligation immediately, acceptance shall be deemed to have taken place 4 calendar weeks after performance of the work if TÜV Rheinland (India) Pvt Ltd has specifically made the client aware of the aforementioned deadline upon performance of the service.

10. Confidentiality
10.1 For the purpose of this agreement, #confidential information# means all information, documents, images, drawings, know-how, data, samples and project documentation which one party (the disclosing party) hands over, transfers or otherwise discloses to the other party (the receiving party).Confidential information also includes paper copies and electronic copies of such information.
10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it on to the receiving party. The same applies to confidential information transmitted by email. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance.
10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party in accordance with this agreement:
a) May only be used by the receiving party for the purposes of performing the purpose of the contract, unless expressly otherwise agreed in writing with the disclosing party.
b) May not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contractor TÜV Rheinland (India) Pvt Ltd ... is required to pass on confidential information, inspection reports or documentation to the authorities or third parties that are involved in the performance of the contract.
c) Must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is objectively required.
10.4 The receiving party shall disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the subject matter of this contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.
10.5 Information for which the receiving party can furnish proof that:
a) It was generally known at the time of disclosure or has become general knowledge without violation of this agreement.
b) It was disclosed to the receiving party by a third party entitled to disclose this information.
c) The receiving party already possessed this information prior to disclosure by the disclosing party.
d) The receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute #confidential information# as defined in this agreement.
e) It is mandated by law or by an order of the Courts to disclose such information.
10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or, on request by the disclosing party, to (ii) destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of this contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under this contract, which shall remain with the client. However, TÜV Rheinland (India) Pvt Ltd is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes.
10.7 From the start of this contract and for a period of three years after termination or expiry of this contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights
11.1 TÜV Rheinland (India) Pvt Ltd shall retain all exclusive and joint copyrights in the expert reports, test results, calculations, presentations etc. prepared by TÜV Rheinland (India) Pvt Ltd.
11.2 The client may only use expert reports, test results, calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
11.3 The client may use test reports, test results, expert reports, etc. only complete and unshorten. Any publication or duplication for advertising purposes needs the prior written approval of TÜV Rheinland (India) Pvt Ltd.

12. Liability of TÜV Rheinland (India) Pvt Ltd
12.1. Irrespective of the legal basis and in particular in the event of a breach of contractual obligations and tort, the liability of TÜV Rheinland (India) Pvt Ltd for all damage, loss and reimbursement of expenses caused by legal representatives and/or employees of TÜV Rheinland (India) Pvt Ltd shall be limited to:
(i) in the case of contract with a fixed overall fee, an amount equal to the overall fee for the entire contract.
(ii) in the case of contracts for annually recurring services, an amount equal to the agreed annual fee.
(iii) in the case of contracts expressly charged on a time and material basis to a maximum of
Rs10,00,000/=(Rupees Ten Lacs only).
and
(iv) in the case of framework agreements that provide for the possibility of placing individual orders, to an amount equal to three times the fee for the individual order under which the damage occurred. The maximum liability of TÜV Rheinland (India) Pvt Ltd is limited in any event of damage or loss to the contract value/Rs. 10,00,000/- (Rupees Ten Lacs) whichever is lower.
12.2 TÜV Rheinland (India) Pvt Ltd shall not be liable for personnel made available by the client to support TÜV Rheinland (India) Pvt Ltd in the performance of its services regulated under this contract. The client shall indemnify TÜV Rheinland (India) Pvt Ltd against any claims made by third parties for all loss that may be caused to or suffered by TÜV Rheinland (India) Pvt Ltd due to acts of omission and commission by the client.
12.3 The limitation periods for claims for damages shall be based on statutory provisions.
12.4 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Partial invalidity, written form, place of jurisdiction
13.1 No ancillary agreements to this contract have been concluded.
13.2 All amendments and supplements must be in writing in order to be effective; this also applies to amendments and supplements to the requirement for the written form.
13.3 Should one or several of the provisions under this contract be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.
13.4 The place of jurisdiction for all disputes arising in connection with this contract shall be Bangalore. This contract is governed by Indian substantive law.
13.5 All claims, disputes, differences, etc., arising out of and / or connected with the contract between TÜV and the client shall be resolved through arbitration to be conducted under the provisions of the Arbitration and Conciliation Act, 1996. The seat of arbitration shall be Bangalore, India. The Arbitral Tribunal shall comprise of a Sole Arbitrator to be nominated by the mutual consent of TÜV and the client. The arbitration proceedings shall be conducted in the English language only.
13.6 Subject to resolution of disputes through arbitration, only the Courts in Bangalore, India, shall be exclusive jurisdiction over all matters arising out of and / or connected with the contract between TÜV and the client.

Payment Terms: The Parties shall negotiate the Payment Terms on a case to case basis. The full and final Terms & Conditions of Payment as negotiated and as contained in the Purchase Order (PO) shall be binding on the Parties to this contract/engagement. The order confirmation issued by TUV Rheinland in concurrence shall be deemed as Acceptance of such Terms & Conditions.

For TÜV Rheinland (India) Pvt. Ltd.
B. H.
Managing Director

TÜVRheinland®
Precisely Right.

Test Report No: 146909819 **Date: 09th May, 2024** **Page: 1 of 16**

APPLICANT	:	**DHANDAPANI SPUN BOND**
CONTACT PERSON	:	**E. VAIDESH PRASHANTH**
ADDRESS	:	**3/104-E,PUDHUPALAYAM, NASIYANUR, TAMIL NADU 638107**

Sample Not Drawn By TUV Rheinland (India) Pvt. Ltd

Sample Description	:	PVC Window & Doors System
Buyer's Name	:	**TBC**
Material	:	Not Provided
Colour	:	White
SKU No	:	Intact ultima, intact pragma
Country of destination	:	Europe
Sample Receiving Date	:	26th April, 2024
Testing Period	:	26th April, 2024 to 09th May, 2024
Delivery Condition	:	Sample received in good condition

Conclusion:

Test Property	Conclusion
Risk Assessment of Articles: Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments. Total substances tested 240	PASS

Material List

Material No.	Material	Location
M001	Plastic	Casement Frame
M002	Plastic	Casement Beading
M003	Metal	Reinforcement Bar
M004	Metal	Friction Hinge or Friction Stay
M005	Metal	Arm or Linkage Arm
M006	Metal	Hinge Track or Slide Track
M007	Metal	Supporting Arm or Bracket
M008	Metal	Pivot Point or Joint
M009	Metal	Window Handle Screw
M010	Metal	Key Cover Cap or Cylinder Cover
M011	Metal	Lock Cylinder Pins
M012	Plastic	Window Handle Key
M013	Aluminium	Window Handle
M014	Metal	Handle Spindle or Square spindle
M015	Metal	Locking Cylinder or Cylinder Core
M016	Metal	Back Plate or Escupcheon Plate
M017	Metal	19mm screw
M018	Metal	25mm screw
M019	Metal	Window Lock Key or striker Plate
M020	Rubber	Gasket
M021	Plastic	Sash Jammer

M022	Plastic	Window Frame Corner Cap or Simply Corner Cap
M023	Metal	Espagnolette Locking Rod or Locking Strip
M024	Metal	Locking Point or Locking Cam
M025	Metal	Mushroom Cam or Espagnolette Cam
M026	Metal	Locking Keep or Striker Plate
M027	Metal	Frame Corner Joint or Corner Bracket
M028	Metal	Window Hinge Corner Bracket or Hinge Protector
M029	Metal	Drainage Caps or Pressure Equalization Caps
M030	Plastic	Sticker
M031	Glass	Glass

Remarks: Testing has been performed as per applicant request.
Note - Accredited test are report with NABL Symbol.

Discipline
NABL - Chemical Testing:

Group
HAZARDOUS & RESTRICTED CHEMICALS

For and on behalf of
TÜV Rheinland (India) Pvt. Ltd.

Manokamna Mishra
Technical Executive (Soft lines)

Test Results:

Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments.

Test Method: In House test method Analyzed by SVOC: organic solvent extraction, determination by GC-MS/ECD, VOC: organic solvent extraction, determination by GC-MS, VVOC: headspace-GC/MS analysis, Non-VOC: organic solvent extraction, determination by LC-MS/MS, Acid digestion followed by ICP-MS
Test results:

Component No	Substance Name	RL (%)	Concentration (%)	Limit (%)
M001+M002+M021+M022+M012	All tested SVHC	0.01%	ND	0.1%
M003+M004+M005+M006+M007	All tested SVHC	0.01%	ND	0.1%
M008+M009+M010+M011+M017	All tested SVHC	0.01%	ND	0.1%
M018+M019+M023+M024+M025	All tested SVHC	0.01%	ND	0.1%
M026+M027+M028+M029	All tested SVHC	0.01%	ND	0.1%
M030	All tested SVHC	0.01%	ND	0.1%
M031	All tested SVHC	0.01%	ND	0.1%
M020	All tested SVHC	0.01%	ND	0.1%
M013	All tested SVHC	0.01%	ND	0.1%
M014+M015+M016	All tested SVHC	0.01%	ND	0.1%

Abbreviation:
< = Less than
RL =Reporting Limit
ND = Not Detected
% =Percentage
Remark:
(*1) The reporting limit for each individual SVHC in Candidate List by ECHA:

	Substance	CAS No.	Reporting Limit
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.01%
2	Benzyl butyl phthalate (BBP)	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.01%
4	Dibutyl phthalate (DBP)	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4 / 3194-55-6 / 134237-50-6 / 134237-51-7 / 134237-52-8	0.01%
6	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP)	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate	115-96-8	0.01%
10	Diarsenic pentaoxide (*2)	1303-28-2	0.01%
11	Diarsenic trioxide (*2)	1327-53-3	0.01%
12	Lead chromate (*2)(*3)	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*2)(*3)	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*2)	1344-37-2	0.01%
15	Trichloroethylene	79-01-6	0.01%
16	Chromium trioxide (*2)	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers: Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. (*2)	7738-94-5 / 13530-68-2	0.01%
18	Sodium dichromate (*2)(*3)	7789-12-0 / 10588-01-9	0.01%
19	Potassium dichromate *2)(*3)	7778-50-9	0.01%
20	Ammonium dichromate (*2)(*3)	7789-09-5	0.01%
21	Potassium chromate (*2)(*3)	7789-00-6	0.01%
22	Sodium chromate (*2)(*3)	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.01%

24	1,2-Dichloroethane	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether	111-96-6	0.01%
26	Arsenic acid (*2)	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01%
28	Dichromium tris(chromate) (*2)(*3)	24613-89-6	0.01%
29	Strontium chromate (*2)(*3)	7789-06-2	0.01%
30	Potassium hydroxyoctaoxodizincatedichromate (*2)(*3)	11103-86-9	0.01%
31	Pentazinc chromate octahydroxide (*2)(*3)	49663-84-5	0.01%
32	1-bromopropane (n-propyl bromide)	106-94-5	0.01%
33	Diisopentylphthalate	605-50-5	0.01%
34	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01%
35	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.01%
36	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01%
37	Bis(2-methoxyethyl) phthalate	117-82-8	0.01%
38	Dipentyl phthalate (DPP)	131-18-0	0.01%
39	N-pentyl-isopentylphthalate	776297-69-9	0.01%
40	Anthracene oil (*6)	90640-80-5	0.01%(*7)
41	Pitch, coal tar, high temperature (*6)	65996-93-2	0.01%(*7)
42	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO) [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.01%
43	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.01%
44	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01%
45	Dihexyl phthalate	84-75-3	0.01%
46	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ;: 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 / 68648-93-1	0.01%
47	Trixylyl phosphate	25155-23-1	0.01%
48	Sodium perborate,perboric acid, sodium salt (*2) (*5)	-	0.01%

49	Sodium peroxometaborate (*2) (*5)	7632-04-4	0.01%
50	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec- butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.01%
51	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01%
52	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01%
53	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01%
54	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01%
55	Anthracene	120-12-7	0.01%
56	Bis(tributyltin) oxide (TBTO) (*4)	56-35-9	0.01%
57	Triethyl arsenate (*2)	15606-95-8	0.01%
58	Lead hydrogen arsenate (*2)	7784-40-9	0.01%
59	Cobalt dichloride (*2)	7646-79-9	0.01%
60	Acrylamide	79-06-1	0.01%
61	Anthracene oil, anthracene paste, distn. lights (*6)	91995-17-4	0.01% (*7)
62	Anthracene oil, anthracene paste, anthracene fraction (*6)	91995-15-2	0.01% (*7)
63	Anthracene oil, anthracene-low (*6)	90640-82-7	0.01% (*7)
64	Anthracene oil, anthracene paste (*6)	90640-81-6	0.01% (*7)
65	Boric acid (*2) (*5)	10043-35-3 / 11113-50-1	0.01%
66	Disodium tetraborate, anhydrous (*2) (*5)	1303-96-4 /1330-43-4 /12179-04-3	0.01%
67	Tetraboron disodium heptaoxide, hydrate (*2) (*5)	12267-73-1	0.01%
68	2-Methoxyethanol	109-86-4	0.01%
69	2-Ethoxyethanol	110-80-5	0.01%
70	Cobalt(II) sulphate (*2)	10124-43-3	0.01%
71	Cobalt(II) dinitrate (*2)	10141-05-6	0.01%
72	Cobalt(II) carbonate (*2)	513-79-1	0.01%
73	Cobalt(II) diacetate (*2)	71-48-7	0.01%
74	Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	0.01%
75	2-Ethoxyethyl acetate	111-15-9	0.01%
76	Hydrazine	302-01-2 / 7803-57-8	0.01%
77	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.01%
78	1,2,3-Trichloropropane	96-18-4	0.01%
79	Aluminosilicate Refractory Ceramic Fibres (RCF) (*8)	-	0.01%
80	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*8)	-	0.01%
81	2-Methoxyaniline,o-Anisidine	90-04-0	0.01%
82	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.01%

83	Calcium arsenate (*2)	7778-44-1	0.01%
84	Trilead diarsenate (*2)	3687-31-8	0.01%
85	N,N-dimethylacetamide (DMAC)	127-19-5	0.01%
86	Phenolphthalein	77-09-8	0.01%
87	Lead dipicrate (*2)	6477-64-1	0.01%
88	Lead diazide, Lead azide (*2)	13424-46-9	0.01%
89	Lead styphnate (*2)	15245-44-0	0.01%
90	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	112-49-2	0.01%
91	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01%
92	Diboron trioxide (*2) (*5)	1303-86-2	0.01%
93	Formamide	75-12-7	0.01%
94	Lead(II) bis(methanesulfonate) (*2)	17570-76-2	0.01%
95	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.01%
96	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (1-TGIC)	59653-74-6	0.01%
97	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK	90-94-8	0.01%
98	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK	101-61-1	0.01%
99	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ;: 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*2)	2580-56-5	0.01%
100	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ;: 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	548-62-9	0.01%
101	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ;: 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	561-41-1	0.01%
102	a a-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ;: 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	6786-83-0	0.01%
103	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.01%
104	Pentacosafluorotridecanoic acid	72629-94-8	0.01%
105	Tricosafluorododecanoic acid	307-55-1	0.01%
106	Henicosafluoroundecanoic acid	2058-94-8	0.01%
107	Heptacosafluorotetradecanoic acid	376-06-7	0.01%
108	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*10)	123-77-3	0.05%

109	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7 / 13149-00-3 / 14166-21-3	0.01%
110	Hexahydromethylphthalic anhydride (MHHPA) [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 / 19438-60-9 / 48122-14-1 / 57110-29-9	0.01%
111	N,N-dimethylformamide	68-12-2	0.01%
112	1,2-Diethoxyethane	629-14-1	0.01%
113	Diethyl sulphate	64-67-5	0.01%
114	Methoxyacetic acid (MAA)	625-45-6	0.01%
115	Dimethyl sulphate	77-78-1	0.01%
116	N-methylacetamide	79-16-3	0.01%
117	Furan	110-00-9	0.01%
118	Methyloxirane (Propylene oxide)	75-56-9	0.01%
119	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01%
120	Dibutyltin dichloride (DBTC) (*14)	683-18-1	0.01%
121	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.01%
122	4,4'-methylenedi-o-toluidine	838-88-0	0.01%
123	4,4'-oxydianiline and its salts	101-80-4	0.01%
124	4-Aminoazobenzene	60-09-3	0.01%
125	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.01%
126	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.01%
127	Biphenyl-4-ylamine	92-67-1	0.01%
128	o-aminoazotoluene	97-56-3	0.01%
129	o-Toluidine	95-53-4	0.01%
130	Acetic acid, lead salt, basic (*2)	51404-69-4	0.01%
131	Trilead bis(carbonate) dihydroxide (*2)	1319-46-6	0.01%
132	Lead oxide sulfate (*2)	12036-76-9	0.01%
133	[Phthalato(2-)]dioxotrilead (*2)	69011-06-9	0.01%
134	Dioxobis(stearato)trilead (*2)	12578-12-0	0.01%

135	Fatty acids, C16-18, lead salts (*2)	91031-62-8	0.01%
136	Lead bis(tetrafluoroborate) (*2)	13814-96-5	0.01%
137	Lead cyanamidate (*2)	20837-86-9	0.01%
138	Lead dinitrate (*2)	10099-74-8	0.01%
139	Lead monoxide (lead oxide) (*2)	1317-36-8	0.01%
140	Orange lead (lead tetroxide) (*2)	1314-41-6	0.01%
141	Lead titanium trioxide (*2)	12060-00-3	0.01%
142	Lead titanium zirconium oxide (*2)	12626-81-2	0.01%
143	Pyrochlore, antimony lead yellow (*2)	8012-00-8	0.01%
144	Pentalead tetraoxide sulphate (*2)	12065-90-6	0.01%
145	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD),the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] (*2)	68784-75-8	0.01%
146	Silicic acid, lead salt (*2)	11120-22-2	0.01%
147	Sulfurous acid, lead salt, dibasic (*2)	62229-08-7	0.01%
148	Tetraethyllead (*2)	78-00-2	0.01%
149	Tetralead trioxide sulphate (*2)	12202-17-4	0.01%
150	Trilead dioxide phosphonate (*2)	12141-20-7	0.01%
151	Ammonium pentadecafluorooctanoate (APFO) (*11)	3825-26-1	0.01%
152	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01%
153	Cadmium (*2)	7440-43-9	0.01%
154	Cadmium oxide (*2)	1306-19-0	0.01%
155	4-Nonylphenol, branched and linear, ethoxylated (NPEO) [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well- defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.01%
156	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.01%
157	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	0.01%
158	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5- hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01%
159	Lead di(acetate) (*2)	301-04-2	0.01%
160	Cadmium sulphide (*2)	1306-23-6	0.01%

161	Cadmium chloride (*2)	10108-64-2	0.01%
162	Cadmium fluoride (*2)	7790-79-6	0.01%
163	Cadmium sulphate (*2)	10124-36-4 / 31119-53-6	0.01%
164	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (*12)	15571-58-1	0.01%
165	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2- oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) (*13)	-	0.01%
166	1,3-propanesultone	1120-71-4	0.01%
167	Nitrobenzene	98-95-3	0.01%
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01%
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01%
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.01%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	0.01%
172	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.01%
173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.01%
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	0.01%
175	Chrysene	218-01-9	0.01%
176	Benzo[a]anthracene	56-55-3	0.01%
177	Cadmium nitrate(*2)	10325-94-7	0.01%
178	Cadmium hydroxide(*2)	21041-95-2	0.01%
179	Cadmium carbonate(*2)	513-78-0	0.01%
180	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.01%
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4- heptylphenol, branched and linear (RP-HP) [with ;:0.1% w/w 4-heptylphenol, branched and linear]	-	0.01%

182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	0.01%
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01%
184	Terphenyl, hydrogenated	61788-32-7	0.01%
185	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01%
186	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01%
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01%
188	Ethylenediamine (EDA)	107-15-3	0.01%
189	Lead	7439-92-1	0.01%
190	Disodium octaborate (*2)(*5)	12008-41-2	0.01%
191	Benzo[ghi]perylene	191-24-2	0.01%
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01%
193	Benzo[k]fluoranthene	207-08-9	0.01%
194	Fluoranthene	206-44-0	0.01%
195	Phenanthrene	85-01-8	0.01%
196	Pyrene	129-00-0	0.01%
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one	15087-24-8	0.01%
198	2-methoxyethyl acetate	110-49-6	0.01%
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ;: 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.01%
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01%
201	4-tert-butylphenol	98-54-4	0.01%
202	Diisohexyl phthalate (DiHexP)	71850-09-4	0.01%
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01%
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01%
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01%
206	1-vinylimidazole	1072-63-5	0.01%
207	2-methylimidazole	693-98-1	0.01%
208	Butyl 4-hydroxybenzoate	94-26-8	0.01%
209	Dibutylbis(pentane-2,4-dionato-O,O')tin(*14)	22673-19-4	0.01%
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.01%

211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (*12)	-	0.01%
212	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01%
213	Orthoboric acid, sodium salt (*2) (*5)	13840-56-7	0.01%
214	2,2-bis(bromomethyl)propane1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1- propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 / 36483-57-5 / 1522-92-5 / 96-13-9	0.01%
215	Glutaral	111-30-8	0.01%
216	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.01%
217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.01%
218	1,4-dioxane	123-91-1	0.01%
219	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.01%
220	S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.01% 0.01%
221	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.01%
222	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01%
223	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol]	119-47-1	0.01%
224	N-(hydroxymethyl)acrylamide	924-42-5	0.01%

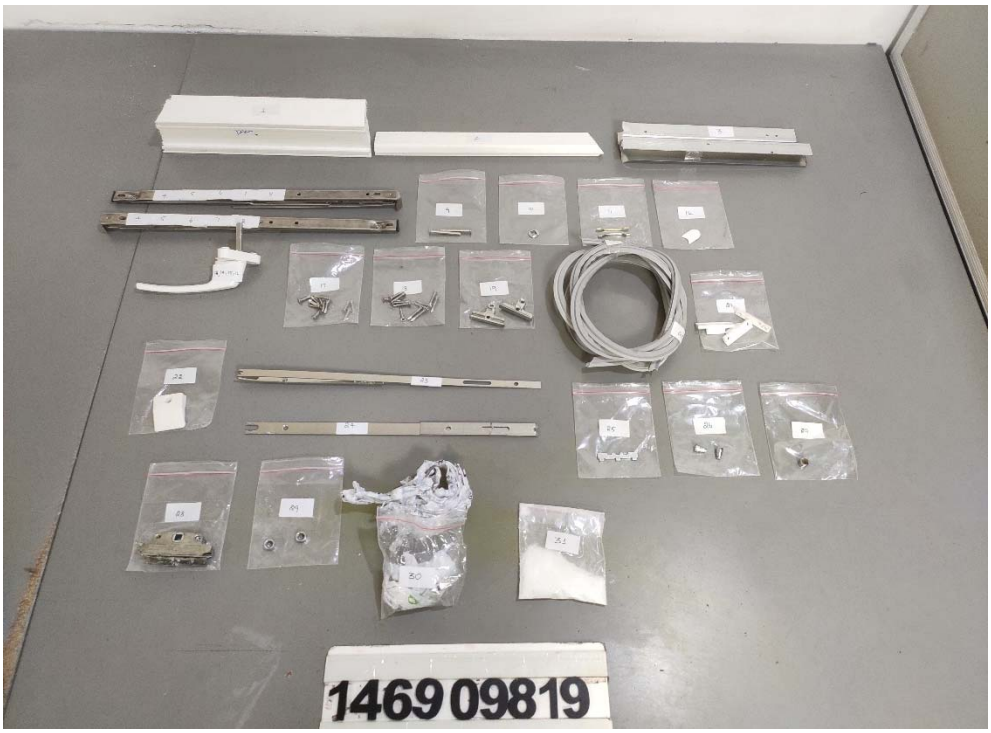
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene] - BTBPE	37853-59-1	0.01%
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.01%
227	4,4'-sulphonyldiphenol	80-09-1	0.01%
228	Barium diboron tetraoxide	13701-59-2	0.01%
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.01%
230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01%
231	Melamine	108-78-1	0.01%
232	Perfluoroheptanoic acid and its salts	-	0.01%
233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.01%
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.01%
235	Bis (4-chlorophenyl) sulphone	80-07-9	0.01%
236	2,4,6-tri-tert-butylphenol	732-26-3	0.01%
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	0.01%
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl) phenyl] butan-1-one	119344-86-4	0.01%
239	Bumetrizole	3896-11-5	0.01%
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.01%

Remark:

1. The substances are tested and calculated in terms of its respective elements and to the worst-case scenario. The report states the theoretical value of SVHC substances without consideration of the actual occurrence in the article.
2. The substances are tested and calculated in terms of Cr (VI).
3. The substance is tested and calculated in terms of Tributyl tin.
4. The substances are confirmed and tested in terms of borate and the borate may come from the compounds other than SVHCs.
5. The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
6. Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
7. The test results are based on microscopic and chemical evaluation.
8. The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
9. The content oligomer is determined by GC/MS.
10. The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
11. The substance is tested in terms of penta deca fluoro octanoate.
12. The substance is tested and calculated in terms of Dioctyl tin.
13. The substance is tested and calculated in terms of Monooctyl tin and Dioctyl tin.
14. The substance is tested and calculated in terms of Dibutyl tin.

15 The substances are given as ND on the basis of self-declaration given.
by client as its parent element found detected.

Sample Photo



-End of the Report--

General Terms and Conditions - TÜV Rheinland (India) Pvt Ltd. Laboratory Services

Terms and Conditions:
Costs and expenses included & excluded in the quoted prices. The prices in this quotation are based on the submitted information only and final price may vary after reviewing the actual sample.

"The Terms & Conditions contained in this Quotation shall supersede all other Contractual obligations entered into between the Parties and shall be deemed as final and binding on the Parties. Both TUV and the Customer/Client shall sign out on the Quotation as a confirmation of their Business Understanding and its acceptability to one another".

 # General Service Procedures
This quotation is only for testing as per the standards mentioned herein. If any additional standards or requirements are applicable, a revision to this proposal will be provided for acceptance.

For any reason, if the turnaround time as indicated above is not met by customer either due to product failures, testing failures, modification delays etc., TÜV Rheinland (India) Pvt Ltd will charge additionally and will invoice for the same.

This quotation does not include testing of safety critical components in case they are not already certified. The above-mentioned quotation includes the test laboratory charges for one cycle of testing.

This quotation does not include re-testing the product in case of failures.
The annual charges are subject to periodic revisions. Wherever needed, the client shall provide necessary auxiliary equipment and accessories.
Testing will be carried out at TÜV Rheinland (India) Pvt Ltd laboratory or any other TÜV Rheinland (India) Pvt Ltd recognized laboratories.

Testing may involve some destructive tests. Hence TÜV Rheinland (India) Pvt Ltd will not be liable for any damages caused to the product during testing. During testing, it may be necessary to open, dis-assemble, remove components and also conduct chemical analysis from the sample and this must be acceptable to the customer.
This quotation considers one manufacturing location within India.

All transportation and logistics related to test samples are to be taken care by the manufacturer.

When Laboratories are booked for Developmental Activities, Maximum of 01 sample is allowed in 04 hours duration slot and a Maximum of 03 identical samples are allowed in 08 hours duration slot.

All chamber related services (EMC & Environmental), if cancelled with less than clear 2 working days of notice then 50% of cancellation charges are applicable. Any cancellation with less than one clear working day notice attracts 100% charges.

Decision Rule: The laboratory employs simple acceptance rule in making pass or fail decisions on test results with no guard band.

After completion of testing / certification the samples must be collected from the labs within 1 month after defined retention period, failing which TÜV Rheinland (India) Pvt Ltd will not own any responsibility of safeguarding the samples and will be destroyed according to the lab's discretion.

The client shall ensure TÜV Rheinland employee is provided with a safe work environment for executing the work assignments at client's premises and also provide necessary HSE inductions on workplace hazards, additional activity specific personnel protective equipment as applicable.

The customers visiting TÜV Rheinland premises must ensure comply with TÜV Rheinland's HSE policies & procedures especially related to #Personal Protective Equipment (PPE).
Please contact TÜV Rheinland Representative / Business HSE Coordinator to understand the specific HSE Requirements.

General Terms and Conditions:

1. Scope
1.1 The following terms and conditions apply to agreed services including information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
1.2 If there is any conflict between these terms and conditions and the clients General Terms and Conditions of Business, including the clients Terms and Conditions of purchasing, if any, these terms and conditions shall apply.
No contractual terms and conditions of the client shall form part of the contract unless specifically referred to or incorporated in the documents forming the contract with the client.

2. Quotations
Unless otherwise agreed, all quotations submitted by TÜV Rheinland (India) Pvt Ltd shall be subject to change without notice.

3. Coming into effect and duration of contracts
3.1 The contract shall come into effect for the agreed term upon the quotation letter of TÜV Rheinland (India) Pvt Ltd or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TÜV Rheinland (India) Pvt Ltd. If the client instructs TÜV Rheinland (India) Pvt Ltd without receiving a prior quotation from TÜV Rheinland (India) Pvt Ltd (quotation), TÜV Rheinland (India) Pvt Ltd is # in its sole discretion # entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means)or by performing the requested services.
3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

4. Scope of services
4.1 The scope of the services shall be decided solely by a unanimous declaration issued by both parties. If no such declaration exists, then the written confirmation of order by TÜV Rheinland (India) Pvt Ltd shall be decisive.
4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
4.3 Furthermore, TÜV Rheinland (India) Pvt Ltd is entitled to determine (in its sole discretion) the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based; in particular, no responsibility shall be assumed for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations unless these questions are expressly covered by the contract.
4.5 In the case of inspection work, TÜV Rheinland (India) Pvt Ltd shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

5. Performance periods/dates
5.1 The contractually agreed periods and dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if confirmed as binding by TÜV Rheinland (India) Pvt Ltd in writing.
5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland (India) Pvt Ltd. This also applies, even without express approval by the client, to all extensions of agreed dates for performance not caused by TÜV Rheinland (India) Pvt Ltd.

6. The clients obligation to cooperate
6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland (India) Pvt Ltd.
6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions.
6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information or lack of proper cooperation. Even where a fixed or maximum price is agreed, TÜV Rheinland (India) Pvt Ltd shall be entitled to charge extra for such additional expense.

7. Invoicing of work
7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs incurred. If no payment is agreed in writing, invoicing shall be in accordance with the TÜV Rheinland (India) Pvt Ltd. Price list valid at the time of performance.
7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
7.3 If the execution of an order extends over more than one month and the value of the contract or the
agreed fixed price exceeds €2,500.00) converted into Indian Rupees at the prevailing exchange rates TÜV Rheinland (India) Pvt Ltd may demand payments on account or in instalments.

8. Payment terms
8.1 All invoice amounts shall be due for payment on receipt of the invoice, subject only to statutory deductions as per applicable tax laws. No discounts shall be granted.
8.2 For down payment please refer Payment terms in the last page.
8.3 Payments shall be made to the bank account of TÜV Rheinland (India) Pvt Ltd through demand draft payable at Bangalore favoring "TÜV Rheinland (India) Pvt. Ltd." You may use our bank connections mentioned below:

Bank Connection:
DEUTSCHE BANK
No. 26-27, Raheja Towers, M.G. Road, Bangalore
Account No. 2046324-00-0, SWIFT Code: DEUTINBBBGL
IFSC Code: DEUT0797BGL
HSBC BANK
The Hongkong and Shanghai Banking Corporation Ltd
No.7, Mahatma Gandhi Road, Bangalore - 560 001.
Account No: 072-669229-001, IFSC: HSBC0560002
Swift: HSBCINBB

Note: In the event of RTGS/NEFT payment made to our Account please send the intimation to accounting@ind.TUV.com, else the amount may not be credited to your account.

8.4 In cases of default of payment, TÜV Rheinland (India) Pvt Ltd shall be entitled to claim default interest at a rate of 18% p.a. At the same time, TÜV Rheinland (India) Pvt Ltd deserves the right to claim further damages.
8.5 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland (India) Pvt Ltd shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract. TÜV Rheinland (India) Pvt Ltd also reserves the right to publish the names of defaulting clients in public domain as may be fit and also meet any other requirements as prescribed by accreditation agencies/bodies.
8.6 The provisions set forth in article. (8.4) shall also apply in cases involving returned cheques, cessation of payment, and commencement of insolvency proceedings against the client assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.
8.7 Objections to the invoices of TÜV Rheinland (India) Pvt Ltd shall be submitted in writing within two weeks of receipt of the invoice.
8.8 TÜV Rheinland (India) Pvt Ltd shall be entitled to demand appropriate advance payments.
8.9 TÜV Rheinland (India) Pvt Ltd shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland (India) Pvt Ltd shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have any special right of termination. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contractual relationship by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon expiry of the above period.
8.10 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland (India) Pvt Ltd.

9. Acceptance
9.1 Any part of the work ordered which is complete in itself may be presented by TÜV Rheinland (India) Pvt Ltd. for acceptance as an instalment. The client shall be obliged to accept it immediately.
9.2 If the client fails to fulfil its acceptance obligation immediately, acceptance shall be deemed to have taken place 4 calendar weeks after performance of the work if TÜV Rheinland (India) Pvt Ltd has specifically made the client aware of the aforementioned deadline upon performance of the service.

10. Confidentiality
10.1 For the purpose of this agreement, #confidential information# means all information, documents, images, drawings, know-how, data, samples and project documentation which one party (the disclosing party) hands over, transfers or otherwise discloses to the other party (the receiving party).Confidential information also includes paper copies and electronic copies of such information.
10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it on to the receiving party. The same applies to confidential information transmitted by email. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance.
10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party in accordance with this agreement:
a) May only be used by the receiving party for the purposes of performing the purpose of the contract, unless expressly otherwise agreed in writing with the disclosing party.
b) May not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contractor TÜV Rheinland (India) Pvt Ltd ... is required to pass on confidential information, inspection reports or documentation to the authorities or third parties that are involved in the performance of the contract.
c) Must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is objectively required.
10.4 The receiving party shall disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the subject matter of this contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.
10.5 Information for which the receiving party can furnish proof that:
a) It was generally known at the time of disclosure or has become general knowledge without violation of this agreement.
b) It was disclosed to the receiving party by a third party entitled to disclose this information.
c) The receiving party already possessed this information prior to disclosure by the disclosing party.
d) The receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute #confidential information# as defined in this agreement.
e) It is mandated by law or by an order of the Courts to disclose such information.
10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or, on request by the disclosing party, to (ii) destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of this contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under this contract, which shall remain with the client. However, TÜV Rheinland (India) Pvt Ltd is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes.
10.7 From the start of this contract and for a period of three years after termination or expiry of this contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights
11.1 TÜV Rheinland (India) Pvt Ltd shall retain all exclusive and joint copyrights in the expert reports, test results, calculations, presentations etc. prepared by TÜV Rheinland (India) Pvt Ltd.
11.2 The client may only use expert reports, test results, calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
11.3 The client may use test reports, test results, expert reports, etc. only complete and unshorten. Any publication or duplication for advertising purposes needs the prior written approval of TÜV Rheinland (India) Pvt Ltd.

12. Liability of TÜV Rheinland (India) Pvt Ltd
12.1. Irrespective of the legal basis and in particular in the event of a breach of contractual obligations and tort, the liability of TÜV Rheinland (India) Pvt Ltd for all damage, loss and reimbursement of expenses caused by legal representatives and/or employees of TÜV Rheinland (India) Pvt Ltd shall be limited to:
(i) in the case of contract with a fixed overall fee, an amount equal to the overall fee for the entire contract.
(ii) in the case of contracts for annually recurring services, an amount equal to the agreed annual fee.
(iii) in the case of contracts expressly charged on a time and material basis to a maximum of Rs10,00,000/=(Rupees Ten Lacs only).
and
(iv) in the case of framework agreements that provide for the possibility of placing individual orders, to an amount equal to three times the fee for the individual order under which the damage occurred.
The maximum liability of TÜV Rheinland (India) Pvt Ltd is limited in any event of damage or loss to the contract value/Rs. 10,00,000/- (Rupees Ten Lacs) whichever is lower.
12.2 TÜV Rheinland (India) Pvt Ltd shall not be liable for personnel made available by the client to support TÜV Rheinland (India) Pvt Ltd in the performance of its services regulated under this contract. The client shall indemnify TÜV Rheinland (India) Pvt Ltd against any claims made by third parties for all loss that may be caused to or suffered by TÜV Rheinland (India) Pvt Ltd due to acts of omission and commission by the client.
12.3 The limitation periods for claims for damages shall be based on statutory provisions.
12.4 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Partial invalidity, written form, place of jurisdiction
13.1 No ancillary agreements to this contract have been concluded.
13.2 All amendments and supplements must be in writing in order to be effective; this also applies to amendments and supplements to the requirement for the written form.
13.3 Should one or several of the provisions under this contract be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.
13.4 The place of jurisdiction for all disputes arising in connection with this contract shall be Bangalore. This contract is governed by Indian substantive law.
13.5 All claims, disputes, differences, etc., arising out of and / or connected with the contract between TÜV and the client shall be resolved through arbitration to be conducted under the provisions of the Arbitration and Conciliation Act, 1996. The seat of arbitration shall be Bangalore, India. The Arbitral Tribunal shall comprise of a Sole Arbitrator to be nominated by the mutual consent of TÜV and the client. The arbitration proceedings shall be conducted in the English language only.
13.6 Subject to resolution of disputes through arbitration, only the Courts in Bangalore, India, shall be exclusive jurisdiction over all matters arising out of and / or connected with the contract between TÜV and the client.

Payment Terms: The Parties shall negotiate the Payment Terms on a case to case basis. The full and final Terms & Conditions of Payment as negotiated and as contained in the Purchase Order (PO) shall be binding on the Parties to this contract/engagement. The order confirmation issued by TUV Rheinland in concurrence shall be deemed as Acceptance of such Terms & Conditions.

TÜVRheinland®
Precisely Right.

Effective date: 01.03.2023

General Terms and Conditions - TÜV Rheinland (India) Pvt Ltd. Laboratory Services

Certificate

This is to Certify that

DHANDAPANI SPUN BOND

3/104-E, Pudhupalayam, Perundurai, Tamil Nadu - 638107, India

has been found in Compliance with requirements of

Quality Management System

ISO 9001:2015

for the following scope:

Manufacturing of UPVC Profiles

Certificate No.	:	QMS/D7EB/1223
Original Certificate Date	:	12-December-2023
Issue Date	:	12-December-2023
Expiry Date	:	11-December-2026

To check this certificate status visit:
"http://uasl.uk.com/certifiedorganization"

Authorised Signature

Quality Control Certification

UK Office: 82, ADLEY STREET,
LONDON - E5 0DZ, United Kingdom

India Office: 2nd Floor, Aman Market,
Narela Mandi, Delhi - 110 040, India

"Quality Control Certification (QCC)" accredited by "UASL, England, UK". This certificate remains the property of "QCC" to whom it must be returned on request.

CERTIFICATE
ZERTIFIKAT

CERTIFICATE OF WARRANTY

(**20 years** Product Performance Warranty *)

for

Dhandapani Spun Bond in India

RENOLIT EXOFOL FX SOLID
RENOLIT EXOFOL FX PRINTED

RENOLIT SE warrants that the above mentioned films for the lamination of substrates for interior and exterior use in vertical assembly of components are manufactured according to the requirements of the worldwide leading and accepted standard RAL-GZ 716 (plastic window profiles, quality assurance, RAL-GZ 716), in the edition of April 2019. This includes all the important specified processing properties, for example:

Colour fastness and the absence of stains, blisters, streaks, cracks as well as peeling. No delamination or other substantial degradation of the visual appearance, caused by exposure to natural weathering and sunlight.

Chemical resistance to all organic solvent-free and non-abrasive household cleansing agents e.g. water, aliphatic hydrocarbons and light alcohol/water solutions.

Excellent mechanical properties (abrasion resistance, scratch resistance)

The requirements of the Product Performance Warranty are fulfilled if the discolouration will be maximal grey scale 2 (ISO 105 - A02) within 20 years * of service. This value can be warranted as long as the film is processed according to the requirements of the RAL-GZ 716 and the discolouration occurs due to natural weathering.

* only for selected colours/designs up to 20 years. Details are available on request.

Status: March 2024

Michael Kundel
CEO

ppa. Stefan Friedrich
General Manager
Exterior Solutions

RENOLIT
Rely on it.

RENOLIT SE | Horchheimer Str. 50 | 67547 Worms | Germany | www.renolit.com