



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India)
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website : www.shriraminstitute.org
E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE

NO.: C1/0000100870

Revised Report of Report No. : 100870

Issued To:

Client Code : P1044
PURBANCHAL LAMINATES PVT. LTD.
(A GOVERNMENT OF INDIA RECOGNISED
EXPORT HOUSE)
354, F.I.E. PATPARGANJ INDL.AREA
DELHI
DELHI-110092
Kind Attn: MR. AJAY GUPTA

Date 06/11/2017

Job No. 1708-1-141-2258

Booking No. RG1718/1/4918

Booking Date 21/08/2017

Customer Ref No. -

Customer Ref Date 21/08/2017

Sample Description :

ONE SAMPLE DESCRIBED AS PVC FOAM BOARD (LEAD FREE BOARD) MANUFACTURED BY PURBACHAL COMPOSITE PANEL INDIA PVT.LTD. AT ITS FACTORY SITUATED AT , SURVEY NO.341, VILLAGE-BHIMSAR, TALUKA-ANJAR, DISTT.-KUTCH, GUJRAT-370110, WAS RECEIVED. Sampling was not carried out by Shriram Institute for Industrial Research. Samples details provided in the test certificate are based on declaration by the party.

S.No	Tests	Results	Protocol
1	Density, kg/m ³	674	IS:2380 (Part III)-1977 (Reaffirmed 2013)
2	Moisture content, %	0.15	IS:2380 (Part III)-1977 (Reaffirmed 2013)
3.	Water Absorption, %		IS:2380 (Part XVI)-1977 (Reaffirmed 2013)
	i) For 2 hrs soaking	0.02	
	ii) For 24 hrs soaking	0.07	
4.	Mass Swelling, % (For 2 hrs)	0.02	IS:2380 (Part XVII)-1977 (Reaffirmed 2013)
5.	Thickness Swelling, % (For 2 hrs)	0.06	IS:2380 (Part -XVII)-1977 (Reaffirmed 2013)
6.	Modulus of Rupture, N/mm ²	20.2	IS:2380 (Part -IV)-1977 (Reaffirmed 2013)
7.	Modulus of Elasticity, N/mm ²	1579	IS:2380(Part -IV)-1977 (Reaffirmed 2013)
8.	Tensile Strength, MPa (Parallel to surface)	20.2	IS:2380 (Part VI) -1977 (Reaffirmed 2013)
9.	Screw Withdrawal Strength, N		IS:2380(Part XIV)-1977 (Reaffirmed 2013)
	a) Face	1605	
	b) Edge	1306	
10.	Nail Withdrawal Strength, N		IS:2380 (Part XIV)-1977 (Reaffirmed 2013)
	a) Face	587	
	b) Edge	426	


AUTHORISED SIGNATORY
EMPLOYEE CODE : (u s g)



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11. Shock Resistance Test, 5 Kgf	No damage observed	IS:4020 (Part 8)-1998 Reaffirmed 2008
12. Water Resistance Test (at 60±2° C for 3 hrs)	No deformation is observed	IS:1734 (Part 6)-1998 Reaffirmed 2013
13. Resistance to steam	No sign of blisters, delamination or change in surface finish. However slight colour change observed.	IS 12823 :1990 (Reaffirmed 2015)
14. Resistance to crack	No sign of cracks or delamination.	IS 12823 :1990 (Reaffirmed 2015)
15. Resistance to Cigarette burn	Specimen shows clear sign of mark & stain on the specimen after cleaning with water or solvent.	IS 12823 :1990 (Reaffirmed 2015)
16. Resistance to stain i) Coffee ii) Acetic acid	No stain on the specimen after cleaning with water, solvent or detergent. No stain on the specimen after cleaning with water, solvent or detergent.	IS 12823 :1990 (Reaffirmed 2015)
17. Varying Humidity Test		IS:4020 (Part 12)-1998 Reaffirmed 2008
Conditioning at 27±2° C % 30 ±5 % Relative Humidity for one week		
Condition 1: At 27±2° C % 85 ±5 % Relative Humidity for one week		
a) change in Length, %	Nil	
b) change in Width, %	Nil	
c) change in Thickness, %	Nil	
d) Diagonal	Nil	
Condition 2: At 27±2° C % 30 ±5 % Relative Humidity for one week		
a) change in Length, %	Nil	
b) change in Width, %	Nil	
c) change in Thickness, %	Nil	
d) Diagonal	Nil	
18. Thickness, mm	18	IS:2380 (Part II)- 1997 Reaffirmed 2013
19. Edge Straightness test,mm	Nil	IS:2380 (Part II)- 1977

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20.	Squareness,mm	Nil	(Reaffirmed 2013) IS:2380 (Part II)- 1977 (Reaffirmed 2013)
21.	Flexure test, mm (Deformation at the load of 20 Kg)	130	IS:4020 (Part-6) -1998 (Reaffirmed 2008)
22.	Edge loading test	The edge loading test could not be performed as the thickness of the sample is lower than the desired thickness specified in the standard specification.	IS:4020 (Part-) -1998 (Reaffirmed 2008)
23.	Mycological test	No change observed	IS:1734 (Part 7)-1998 (Reaffirmed 2013)
24.	Vicat Softening Point°C	74	ASTM D 1525-08
25.	Heat Deflection Temperature (Determination of Resistance to Dry Heat at 103±2°C for 6 :30 hrs.)	No signs of delamination at the edges or formation of blisters.	IS: 1734 (Part-2)-1983 (Reaffirmed 2013)
26.	Fire Retardancy	The specimen does not burn after application of test flame	ASTM D 635-14
27.	Hardness, Shore D		ASTM D 2240-15
	a) On Surface	69	
	b) On Edge	45	
28.	Heavy Metals Content,		Acid digestion followed by ICP-MS & ICP OES
	a) Lead (Pb), ppm	1.4	
	b) Tin (Sn) , ppm	112	
	c) Cadmium (Cd), ppm	Below dection limit	
	d) Mercury (Hg), ppm	Below dection limit	

Note : Detection limit of
(i) Cadmium 0.083 ppm
(iii) Mercury 0.083 ppm

D.O.R: 21/08/2017
D.O.C: 05/10/2017

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