

TEST REPORT

Reference No. : TRHZ1107299

Date : Jul. 21, 2011

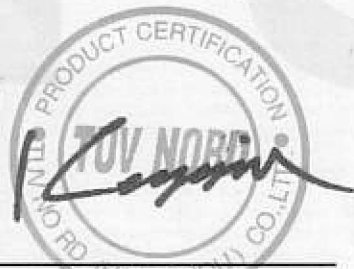
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Applicant : Igepa Group
Address : Igepa Group GmbH & Co. KG
Sachsenfeld 4, D20097 Hamburg, Germany

The following merchandise was (were) submitted and identified by the client as:

Name of Product : PVC COATED MESH
Test Model : /
Model May Cover : /
Color : White
Sample Received : Jul. 15, 2011
Test Period : Jul. 15, 2011 – Jul. 18, 2011
Test Request : As the Client required, to do the flammability requirements of the sample according to DIN 4102 B1 (1998)
Test Method : DIN 4102-1 (May 1998) Fire behavior of building materials and elements Part 1: Classification of building materials, Requirements and testing
Conclusion : The tested sample **meets** the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1998).

Issued by:



TÜV NORD
GPSC Manager

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TEST RESULTS:

I. Test conducted

This test was conducted as per DIN 4102-15:1990, DIN 4102-16:1998 and DIN 4102-1:1998 Clause 6.2. Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials

II. Sample details

General description	Polyester
Color / Density	White
Size of sample	

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.

III. Test results

1) "Brandschacht" Test according to DIN 4102-15 &16

Orientation: Product direction, Exposed surface: Face of the sample

Results of "Brandschacht" Test (part 1)						
Line No.	-----	Unit	Test assemblies No.			
			A	B	C	D
1	Specimen fixings according to DIN 4102 part 15, table	/	1			
2	Max. flame height above lower sample edge**;	cm	50			
3	Time ¹⁾	min:s	2:23			
	Melting/burning through		/			
4	Time ¹⁾	min:s	0:21			
	Back of specimen					
5	Flaming/glowing, Time ¹⁾	min:s	/			
6	Discolouring, Time ¹⁾	min:s	0:07			
	Burning droplets		No			
7	Begin ¹⁾	min:s	/			
	Amount		/			
8	Specimen material falling off in separate droplets		/			
9	Specimen material falling off continuously		/			

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Results of "Brandschacht" Test (part 2)

Line No.		Unit	Test assemblies No.			
			A	B	C	D
	Burning parts					
10	Begin 1)	min:s	1:14			
11	Parts of sample falling off separately		√			
12	Parts of sample falling off continuously		/			
13	Duration of continued combustion on mesh base (max.)	min:s	2:13			
	Burner flame impairment by dripping/falling material		No			
14	Time ¹⁾	min:s	/			
	Premature ending of test		No			
15	End of burning at specimen ¹⁾	min:s	/			
16	Time when test terminated (if applicable) ¹⁾	min:s	/			
	Burning after end of test		No			
17	Duration	min:s	/			
18	Number of specimens		/			
19	Front of specimen		/			
20	Back of specimen		/			
21	Height of flame	cm	/			
	Glowing after end of test		No			
22	Duration	min:s	/			
23	Number of specimens		/			
24	Front of specimen		/			
25	Back of specimen		/			
26	Top half of specimen		/			
27	Bottom half of specimen		/			

***** To be continued *****

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Results of "Brandschacht" Test (part 3)						
Line No.		Unit	Test assemblies No.			
			A	B	C	D
	Residual length		/			
28	Single results	cm	48	54		
			48	53		
29	Average of the single results	cm	51			
	Smoke temperature		/			
30	Max. of average	°C	104			
31	Time ¹⁾	min:s	3.45			

Note: ¹⁾ time from start of testing

2) Normal Flammability Test according to DIN 4102-1 Clause 6.2

Flame application: bottom edge ignition

Specimen No.	1	2	3	4	5
Reaching the measuring mark within 20 seconds	No	No	No	No	No
Self extinguishing of the flame (s)	15	15	16	15	16
Max. flame height (cm)	7	6	6	7	6
End of afterflaming (s)	16	14	15	16	15
End of afterglowing (s)	/	/	/	/	/
Molten dripping	No	No	No	No	No
Smoke developments (visual impression)	Slight				

All timings are from start of testing

***** To be continued *****

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Comments:

DIN 4102-B2

Criteria for classification for Class B1 (DIN 4102-1 Clause 6.1.2)

All materials, except flooring, may be classed as B1 materials if they met,

a) Pass DIN 4102-16 "brandschacht" test if

- 1) The mean value for the residual length of each specimen is at least 15 cm, and no individual values are lower than 0 cm;
- 2) The mean effluent temperature does not exceed 200°C in any test;
- 3) The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1 Clause 6.2.3 Ignitability Test if,

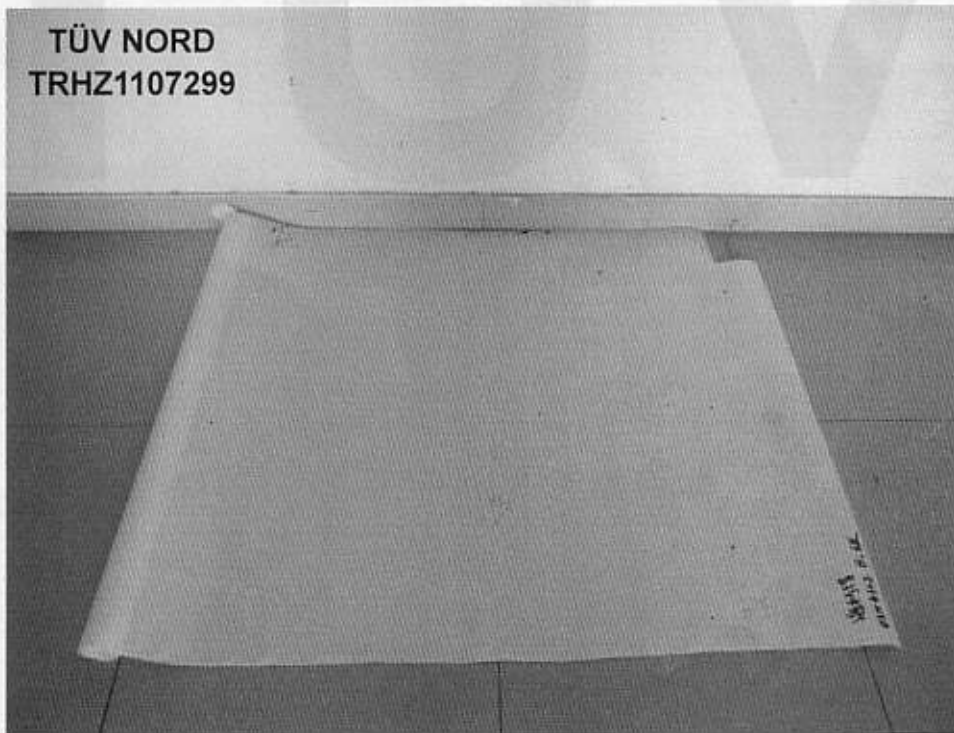
For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

Statements:


This test report does not replace any mandatory certification of the product that may be required.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire and smoke hazard of the product in use.

SAMPLE PHOTO



***** END OF REPORT *****

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