



TEST REPORT

No. : SHCCM130200316

Date : Mar. 12, 2013

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IGEPA GROUP GMBH & CO.KG
SACHSENFELD 4, 20097 HAMBURG, GERMANY

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : MASTER JET S BACKLIT 540 B1 RAINBOW
Sample Number : SHCCM130200316
Test Required : To determine the flammability (building materials class B1) in accordance with
DIN 4102-1 (May 1998) Fire behaviour of building materials and elements Part
1: Classification of building materials, Requirements and testing
Test Method : Please see the next page(s)
Product Specification : Width 1.10m-5.00m
Product or Lot No. : SBI-BL540R
Material and Mark : PVC and polyester
Date of Receipt : Feb. 08, 2013
Test Period : Feb. 08, 2013 to Mar. 12, 2013
Test result(s) : For further details, please refer to the following page(s)

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

Signed for SGS-CSTC Standards
Technical Services (Shanghai) Co., Ltd.

Sally Xie

Sally Xie

Authorized signatory

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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

Color / Density	White / 530g/m ²
Size of sample	1000 mm×190 mm, 230 mm×90 mm

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

Exposed surface: The Front Face

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	40		
3	Time ¹⁾	min:s	0:09		
4	<u>Melting/burning through</u> Time ¹⁾	min:s	0:02		
5	<u>Back of specimen</u> Flaming/glowing, Time ¹⁾	min:s	0:02		
6	Discolouring, Time ¹⁾	min:s	0:01		
7	<u>Burning droplets</u> Begin ¹⁾	min:s	NO		
8	<u>Amount</u> Specimen material falling off in separate droplets		/		
9	Specimen material falling off continuously		/		

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

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Results of "Brandschacht" Test (part 2)						
Line No.		Unit	Test assemblies No.			
			A	B	C	D
	<u>Burning parts</u>		NO			
10	Begin ¹⁾	min:s	/			
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	NO			
	<u>Burner flame impairment by dripping/falling material</u>		NO			
14	Time ¹⁾	min:s	/			
	<u>Premature ending of test</u>		/			
15	End of burning at specimen ¹⁾	min:s	/			
16	Time when test terminated (if applicable) ¹⁾	min:s	/			
	<u>Burning after end of test</u>		NO			
17	Duration	min:s	/			
18	Number of specimens		/			
19	Front of specimen		/			
20	Back of specimen		/			
21	Height of flame	cm	/			
	<u>Glowing after end of test</u>		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	
28	<u>Residual length</u>								
	Single results	64	65						
		65	66						
29	Average of the single results	65							
30	<u>Smoke temperature</u>								
	Max. of average	115							
31	Time ¹⁾	10:00							

Note: ¹⁾ time from start of testing

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

Flame application: [] bottom edge ignition, [] surface 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	15	15	15
Max. flame height (cm)	7	6	7	7	8
End of afterflaming (s)	15	15	15	15	15
End of afterglowing (s)	15	15	15	15	15
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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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.

Conclusion: The tested sample meets the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1998).

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.

Photo Appendix:



***** End of report *****

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