



TEST REPORT

No. : SHCCM130200321

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 BLOCKOUT 800 B1 THUNDER
Sample Number : SHCCM130200321
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-BO800R
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 / 828g/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 | 0:23 | | |
| 4 | <u>Melting/burning through</u> Time ¹⁾ | min:s | 0:14 | | |
| 5 | <u>Back of specimen</u> Flaming/glowing, Time ¹⁾ | min:s | 0:14 | | |
| 6 | Discolouring, Time ¹⁾ | min:s | 0:13 | | |
| 7 | <u>Burning droplets</u> Begin ¹⁾ | min:s | NO | | |
| 8 | Amount 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 |
| 10 | <u>Burning parts</u> | NO | | | |
| | Begin ¹⁾ | / | | | |
| | 11 Parts of sample falling off separately | / | | | |
| 12 | Parts of sample falling off continuously | / | | | |
| 13 | Duration of continued combustion on mesh base (max.) | NO | | | |
| 14 | <u>Burner flame impairment by dripping/falling material</u> | NO | | | |
| | Time ¹⁾ | / | | | |
| 15 | <u>Premature ending of test</u> | / | | | |
| | End of burning at specimen ¹⁾ | / | | | |
| 16 | Time when test terminated (if applicable) ¹⁾ | / | | | |
| 17 | <u>Burning after end of test</u> | NO | | | |
| | Duration | / | | | |
| | 18 Number of specimens | / | | | |
| | 19 Front of specimen | / | | | |
| | 20 Back of specimen | / | | | |
| | 21 Height of flame | / | | | |
| 22 | <u>Glowing after end of test</u> | NO | | | |
| | Duration | / | | | |
| | 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. | Residual length | Unit | Test assemblies No. | | | | |
| | | | A | B | C | D | |
| 28 | Single results | cm | 63 | 64 | | | |
| | 65 | | 64 | | | | |
| | 29 | Average of the single results | cm | 64 | | | |
| 30 | Smoke temperature | °C | | | | | |
| 31 | Max. of average | | 120 | | | | |
| 31 | Time ¹⁾ | min:s | 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 | 8 | 7 | 6 | 7 |
| 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.

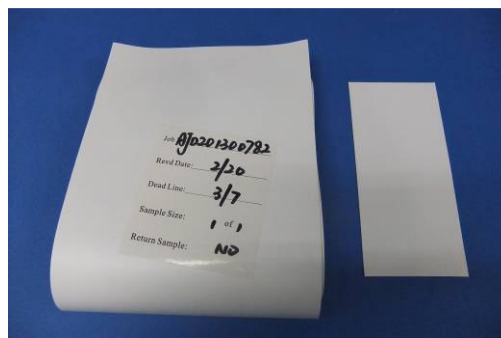
Conclusion: The tested sample meets the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1998).

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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