

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

Sample Description: 4200 OXFORD FABRIC

Color: WHITE

Style/Item No.: 4200

Country of Destination: EUROPE

Test Requested:

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 Results: – See attached sheet –

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

Test Period:

Sample Receiving Date : MAR 04, 2016

Test Performing Date : MAR 04, 2016 TO MAR 21, 2016

Signed for and on behalf of
SGS-CSTC Co., Ltd. Anji Branch



Allen Zou
Technical Manager

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I. Test conducted

This test was conducted as per DIN 4102-15:1990 DIN 4102-16:1996 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

| | |
|-----------------|-----------------------------|
| Name | 4100 OXFORD FABRIC |
| Color / Density | White / 420g/m ² |
| Size of sample | 1000mmx190mm & 190mmx90mm |

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 I) | | | |
|---|---|--------------------|-----------|
| Line No | Unit | Test assemblies No | |
| | | Lengthwise | Widthwise |
| 1 | Specimen fixings according to DIN 4102 part 15, table | / | / |
| 2 | Max. flame height above lower sample edge | 30 | 30 |
| 3 | Time ¹⁾ | 0:11 | 0:17 |
| 4 | Melting/burning through | 0:05 | 0:04 |
| 5 | Back of specimen flaming/glowing, Time ¹⁾ | 0:07 | 0:06 |
| 6 | Discolouring, Time ¹⁾ | 0:00 | 0:00 |
| 7 | Burning droplets | No | No |
| | Begin 1) | / | / |
| | Amount | / | / |
| 8 | 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. | |
| | | Lengthwise | Widthwise |
| | Burning parts | No | No |
| 10 | 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 | No |
| | Burner flame impairment by dropping/falling material | No | No |
| 14 | Time ¹⁾ | / | / |
| | Premature ending of test | / | / |
| 15 | End of burning at specimen ²⁾ | / | / |
| 16 | Time when test terminated (if applicable) ³⁾ | / | / |
| | Burning after end of test | No | No |
| 17 | Duration | / | / |
| 18 | Number of specimens | / | / |
| 19 | Front of specimen | / | / |
| 20 | Back of specimen | / | / |
| 21 | Height of flame | cm | / |
| | Glowing after end of test | No | No |
| 22 | Duration | mins | / |
| 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. | | | | |
| | | Lengthwise | | Widthwise | | |
| | <u>Residual length</u> | | | | | |
| 28 | Single results | cm | 73 | 74 | 73 | 72 |
| | | | 72 | 73 | 75 | 74 |
| 29 | Average of the single results | cm | 72.8 | | 73.5 | |
| | <u>Smoke temperature</u> | | | | | |
| 30 | Max. of average | °C | 147.5 | | 149.9 | |
| 31 | Time ¹⁾ | min:s | 08:17 | | 08:12 | |

 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

 [] Lengthwise (if applicable)

| 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) | 6 | 8 | 9 | 7 | 6 |
| 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 | | | | |

 [] Widthwise (if applicable)

| 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) | 6 | 8 | 8 | 9 | 10 |
| 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 | | | | |

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 meet:

a) Pass DIN 4102-16 "brandechacht" 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.

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

Sample Description: THE OXFORD WHICH IS LENGTH 2.5M WIDTH 1.6M COATED WITH PU

Color: WHITE

Density: LONGITUDE 19, LATITUDE 14

Thickness: 0.35MM

Composition: 100% POLYESTER

Test Requested:

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 Results: -- See attached sheet --

Classification: The tested sample meets class **B1** building materials requirements of DIN 4102-1 (May 1998).

Test Period:

Sample Receiving Date : MAY 10, 2016

Test Performing Date : MAY 10, 2016 TO MAY 25, 2016

Signed for and on behalf of
SGS-CSTC Co., Ltd. Any Branch



Allen Zou
Technical Manager



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I. Test conducted

This test was conducted as per DIN 4102-15: 1999 DIN 4102-16: 1998 and DIN 4102-1: 1998 Clause 6.2, and Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials.

II. Sample details

| | |
|-----------------------------|--|
| General description / Color | The Oxford Which is Length 2.5m, Width 1.6m Coated With PU / White |
| Density | About 273 g/m ² |
| Size of sample | 1000mm×190mm & 190mm×90mm |

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. | Description | Unit | Test assemblies No. | | | |
| | | | A | B | C | D |
| 1 | Specimen fixings according to DIN 4102 part 16, table | - | | | | |
| 2 | Max. flame height above lower sample edge | cm | 30 | | | |
| 3 | Time ^{T1} | min:s | 0:15 | | | |
| 4 | Melting/burning through | min:s | 0:08 | | | |
| 5 | Back of specimen flaming/glowing, Time ^{T1} | min:s | 0:09 | | | |
| 6 | Discolouring, Time ^{T1} | min:s | 0:07 | | | |
| 7 | Burning droplets Begin ^{T1} | min:s | 0:11 | | | |
| 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 |
| | Burning parts | NO | | | |
| 10 | 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 | | | |
| | Burner flame impairment by dripping/falling material | NO | | | |
| 14 | Time ²⁾ | / | | | |
| | Premature ending of test | / | | | |
| 15 | End of burning at specimen ³⁾ | / | | | |
| 16 | Time when test terminated (if applicable) ⁴⁾ | / | | | |
| | Burning after end of test | NO | | | |
| 17 | Duration | / | | | |
| 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 | |
| <u>Residual length</u> | | | | | | |
| 28 | Single results | cm | 58 | 52 | | |
| | | | 55 | 50 | | |
| 29 | Average of the single results | cm | 53.8 | | | |
| <u>Smoke temperature</u> | | | | | | |
| 30 | Max. of average | °C | 166.7 | | | |
| 31 | Time ¹⁾ | min:s | 08:05 | | | |

 Note: ¹⁾ time from start of testing

*Reduction in number of test (DIN 4102 Part 16, clause 5.2)

Class B1 materials

If the residual length measured after the first test is 45cm or greater, further tests are not required.

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 | 15 | 15 | 15 |
| Max. flame height (cm) | 4 | 5 | 5 | 4 | 4 |
| 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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IV. DIN 4102-1:1998 Criteria for classification

- 1) All materials, except flooring, may be classed as B1 materials if they meet the following requirements a) and b):
 - a) The test using the 'Brandeschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if
 - The mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause 9.1 of DIN 4102-15) of each specimen is at least 15 cm and no individual values are lower than 0 cm,
 - The mean effluent temperature does not exceed 200 °C in any test,
 - The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.
 - b) Pass DIN 4102-1: 1998 sub-clause 6.2.3 Ignitability Test if
 - For each specimen, flaming doesn't reach the gage mark within 20s after flame application.
- 2) Materials may be classed as B2 materials if they pass the ignitability test specified in DIN 4102-1: 1998 subclause 6.2.5.
 - For each specimen, flaming doesn't reach the gage mark (150mm mark) within 20s after flame application.
- 3) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as B3 materials.

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:



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End of Report

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