

**Client:** Gabriel  
Hjulgagervej 55  
Postbox 59  
DK-9100 Aalborg  
Denmark

**Entry No:** 67100

**Date received:** 01/10/2014

**Client's Description:** Sample of fabric: Crisscross with TFR

### TEST REPORT

**Test Required:** Flammability BS 7176 Medium Hazard  
**Pre-treatment:** Water soaking in accordance with EN 1021 Annex D followed by Line drying  
**Conditioning:** A minimum of 24 hours at 50 +/- 5% Relative Humidity, 23 +/- 2° C  
**Method of Test:** BS EN 1021-1: 2006 – smouldering cigarette  
BS EN 1021-2: 2006 – match flame equivalent  
**Date of Test:** 29/10/2014

Ignition Source	Observations	Result
Smouldering cigarette	No flaming or progressive smouldering was observed within one hour of placement of the cigarettes.	PASS
Match flame equivalent	Flaming ceased within the specified two minute period after removal of the butane flame and no progressive smouldering occurred.	PASS

**Note:** A 35 kg/m<sup>3</sup> CM foam (Carpenters RX36-125) which meets the requirements of Annex A of BS 7176 was used as the filling

The above tests relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

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*This is hereby certified to be a correct return of the tests made of the items referred to herein.*



D J Brockbank  
Materials Testing Manager  
30<sup>th</sup> October 2014

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days
- ❖ Test marked (\*) in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
- ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
- ❖ This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



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**Method of Test:** BS 5852 : 2006 Clause 11 (composites)

**Pre-treatment:** Water soaking in accordance with BS5852:2006 Annex E followed by Line drying

**Conditioning:** A minimum of 96 hours at 50 +/- 5% Relative Humidity, 23 +/- 2° C

**Date of Test:** 29/10/2014

The following test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Ignition Source	Observations	Result
5 (Wood Crib)	Flaming ceased within the specified ten minute period after ignition of the crib and no progressive smouldering occurred.	PASS

**Note:** A 35 kg/m<sup>3</sup> CM foam (Carpenters RX36-125) which meets the requirements of Annex A of BS 7176 was used as the filling

#### Comments

BS 7176 : 2007 + A1 : 2011 relates to labelling of furniture. If an item of furniture was manufactured from a composite of the fabric and foam tested above then it would comply with the medium hazard category flammability requirements provided that it was tested every 2.500 units or once per month as required by Para 5 of BS 7176.

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During the tests the following data was recorded: -

	Smouldering cigarette		Match flame equivalent		
<b>Time of Ignition (sec)</b>	No Ignition	No Ignition	7	7	8
<b>Time to extinction of flame after removal of butane flame (sec)</b>	N/A	N/A	1	2	1
<b>Time of Cover Split (sec)</b>	Did not split	Did not split	Did not split	Did not split	Did not split
<b>Melting (Yes or No)</b>	Yes	Yes	Yes	Yes	Yes
<b>Dripping (Yes or No)</b>	No	No	No	No	No
<b>Charring (Yes or No)</b>	Yes	Yes	Yes	Yes	Yes

#### Source 5

<b>Time of ignition (sec)</b>	13	10
<b>Time to extinction of flaming (sec)</b>	310	279
<b>Time to extinction of smoke (sec)</b>	360	320
<b>Time to cover splitting (sec)</b>	42	63
<b>Damage on seat width (mm)</b>	151	140
<b>Damage on seat length (mm)</b>	180	162
<b>Damage on seat depth (mm)</b>	55	39
<b>Damage on back width (mm)</b>	209	182
<b>Damage on back length (mm)</b>	399	421
<b>Damage on back depth (mm)</b>	74	57
<b>Melting (Yes or No)</b>	Yes	Yes
<b>Dripping (Yes or No)</b>	No	No
<b>Charring (Yes or No)</b>	Yes	Yes

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