

Our Ref: SW/PN/BR

01 November 2013

Report 209562/2

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Contact: David Brook

DATE RECEIVED	:	25 OCTOBER 2013
FABRIC SUPPLIER	:	PALMHIVE
QUALITY/REFERENCE	:	D6871 VELOCITY
REPUTED FIBRE CONTENT	:	NOT GIVEN
FABRIC DESCRIPTION	:	KNITTED
COLOUR/DESIGN	:	BLACK
END USE	:	UPHOLSTERY
STYLE NUMBER	:	S98175
ORDER NUMBER	:	45950
PERFORMANCE STANDARD	:	GENERL

REQUEST: BS7176:2008 + A1:2011 Specification for resistance to ignition of upholstered furniture for non-domestic seating by testing composites – Table 1: Low Hazard Use

COMMENTS: Meets the flammability performance requirements of BS7176:2008 + A1:2011 -Table 1 Low Hazard Use



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LABORATORY DIRECTOR



P. NEESAM
HEAD OF FLAMMABILITY

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BS 7176:2008 + A1:2011 Specification for resistance to ignition of upholstered furniture for non-domestic seating by testing composites

BS7176:2008 +A1:2011 specifies flammability performance requirements for composites comprising cover fabric and filling material(s) and includes additional requirements in clause 4.1.2 relating to the flammability behaviour of the filling materials used. The filling materials which will be used in the final article are not always known to the fabric supplier and therefore nominal filling materials are used for the purpose of testing which may not necessarily represent the final composite. All filling materials supplied by HSTTS for the purpose of testing cover fabrics comply with the relevant requirements of clause 4.1.2.

Clause 4.1.1 requires that testing is carried out in accordance with the frequency stated in clause 5. No information was provided by the client regarding the lot size or frequency of testing.

According to Table 1, composites for Low Hazard end-use shall meet the requirements of BSEN 1021-1:2006 (cigarette ignition source) and BSEN 1021-2:2006 (match-equivalent flame).

Pre-treatment:

In accordance with clause 4.2, all fabrics which have been chemically treated to reduce their ignitability are subjected to the water soaking and drying procedures specified in BSEN 1021-1 & BSEN 1021-2:2006 Annex D prior to being conditioned. Such pre-treatment is not necessary for materials which are formulated to be or are inherently flame-retarded.

Pre-treatment applied: Water soak according to Annex D

Conditioning

After any pre-treatment given but prior to testing, the test specimens of fabric, Ref: D6871 Velocity were subjected to conditioning for at least 72 hours in ambient indoor conditions followed by a minimum of 24 hours at a temperature of $(23 \pm 2^\circ\text{C})$ and relative humidity of $(50 \pm 5\%)$.

Test results

The following test results 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. They also only relate to the materials tested. They do not guarantee to represent the performance of production materials.

Filling material used: Combustion modified high resilience foam infill of approximately 36 kg/m³.

- (i) BS EN 1021-1:2006 Furniture - Assessment of the ignitability of upholstered furniture – Part I. Ignition Source: Smouldering cigarette.

<u>Test</u>	<u>Observations</u>	<u>Outcome</u>
1	No flaming or progressive smouldering observed	NI (Non-ignition)
2	No flaming or progressive smouldering observed	NI (Non-ignition)

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- (ii) BS EN 1021-2:2006 Furniture - Assessment of the ignitability of upholstered furniture – Part 2. Ignition Source Match flame equivalent.

Duration of flame application: 15 seconds

<u>Test</u>	<u>Observations</u>	<u>Outcome</u>
1	Duration of flaming: 2 secs No progressive smouldering observed	NI (Non-ignition)
2	Duration of flaming: 1 secs No progressive smouldering observed	NI (Non-ignition)
3	Duration of flaming: 2 secs No progressive smouldering observed	NI (Non-ignition)

Comments

Meets the flammability performance requirements of BS7176:2008 + A1:2011 -Table 1 Low Hazard Use