

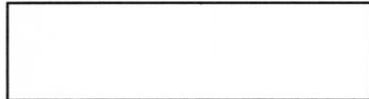
TECHNICAL REPORT

Burch

Customer information:
BURCH FABRICS

4200 Brockton Dr SE
Grand Rapids, MI 49512
(616) 698-2800

SAMPLE(S) FOR TEST:



Ref: BRC111390

Test Date : 02/02/2023

Test End Date : 06/02/2023

8/02/2023

One, Composite – Ref: ASTORIA

Note: The above descriptions are as supplied by the client and have not been verified by KETS International who can take no responsibility for the accuracy of the description.

Conditioning

Prior to testing: At least 72 hours in ambient indoor conditions, then at least 16 hours in an atmosphere having a temperature of 20±5°C and a relative humidity of 50±20%

At time of testing: Temperature of 15 to 30°C and a relative humidity of 20% to 70%

TEST	SAMPLE 1
FLAMMABILITY TEST (CIGARETTE) - BS 5852 :1979 Part 1 source 0	P
FLAMMABILITY TEST (CIGARETTE) - CAL 117-2013	P
FLAMMABILITY TEST (CIGARETTE) -NFPA 260 Cigarette	P
FLAMMABILITY TEST (CIGARETTE) - BS EN 1021-1: 2014	P

P = MEETS BUYER'S REQUIREMENT / F = DOES NOT MEET BUYER'S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE/ LS : LACK OF SAMPLE



TEST REPORT

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Test Method	Result	Requirements
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Flammability Test

BS 5852 :1979 Part 1 source 0 Cigarette

Test Specification

Test Method: BS 5852-1: 1979 as modified by Schedule 4 Part 1 and Schedule 5 Part 1 of The Furniture and Furnishing (fire) (safety) Regulations 1988 (as amended)
 Criterion of Ignition: Ignition Source 0: Calibrated Senior Service Cigarette

Flame Application Time: 20±1 seconds

Filling Specification

Filling type: Polyurethane foam
 Size: 450 x 300 x 75 mm (back) & 450 x 150 x 75 mm (seat)
 Density / Hardness: 20-22 kg/m³ / Type B Hardness grade 130

Pre-treatment / Durability procedure

The sample was water soaked as clause 4 of BS 5651: 1978 as modified by The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended) then line dried.

Test Method	Pre Treatment	Flammability Performance Requirements	Result			
BS 5852: Part 1: 1979, Ignition source 0 (Cigarette)	Watersoaked as clause 4.2 to 4.5 of BS 5651:1978 as modified by The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended) then Line dried.	Compliance with Schedule 4 Part 1 (The cigarette test) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended).	PASS			
Note: Fabric was submitted for test rather than the upholstery composite so as suggested by The Guide to the Furniture Regulations the cover fabric was tested for cigarette resistance using standard polyurethane foam (non-modified) as this will give the furniture manufacturer a good indication of its likelihood to pass the cigarette test for the finished article.						
Cigarette Test	Specimen No	Cigarette Burning Time	Flaming	Progressive Smouldering	Covering Splitting	Result
	1	22 min 35 sec	N	N	Y	PASS
	2	25 min 19 sec	N	N	Y	PASS

Y: Yes N: No N/A: Not Applicable P: Pass F: Fail D: Depth L: Length W: Width

Conclusion:

The composite tested meets the requirements of Schedule 4 Part 1 of the Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended). **PASS**



TEST REPORT

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Test Method	Result	Requirements
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(*)Flammability test- Ignition source: smouldering cigarette
CAL TB 117:2013

Conditioning : At least 24 hours in an atmosphere having a temperature of $21^{\circ} \pm 3^{\circ} \text{C}$ ($70^{\circ} \pm 5^{\circ} \text{F}$) and less than 55% relative humidity

Remark: No = Was not observed

Test Method

The apparatus and method of testing were those described in California Technical Bulletin 117-2013, Section 1, for measuring the tendency of upholstery cover fabrics to smolder and contribute to fire propagation, when subjected to a smoldering ignition source.

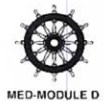
Pass/Fail Criteria

Specimen No	Vertical Char length (Inches)	Mock-up specimen continues to smolder After 45 Minutes	Mock-up test specimen transitions to open flaming	Test Result
1-	0.9	No	No	Pass
2-	0.4	No	No	Pass
3-	0.7	No	No	Pass

RESULTS : Based on the above Results and Acceptance Criteria, the item tested is:

☒ Pass

☐ Fail



TEST REPORT

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Test Method	Result	Requirements
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Flammability Test

NFPA 260 Cigarette

Test Method:

TEST PERFORMED: NFPA 260 Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture – 2019; Fabric Cover Test and UFAC Fabric Classification Test Method – 1990; Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture ASTM E 1353-16 – Cover Fabric Test

Test Conditions: 70 ±4°F, 65 ±5% Relative Humidity

ACCEPTANCE CRITERIA

1. If the test specimen has no ignition, or if no individual specimen yields a vertical char of 45 mm (1.75 in; ASTM states 1.8 in.) or less, the fabric is classified a Class I cover fabric.
2. If the vertical char of the test specimen greater than 45 mm (1.75 in.; ASTM states 1.8 in), the fabric is classified a Class II cover fabric.
3. If an obvious ignition of the polyurethane substrate occurs on the test assembly, the fabric is classified a Class II cover fabric.

Specimen	Char Length (in)
1	0.3
2	0.6
3	0.7

RESULTS Based on the above Results and Acceptance Criteria, the item tested is:

- ☒ Class I
☐ Class II

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

END OF TEST REPORT



TEST REPORT

RESULTS

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Test Method	Results	Requirements
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(*)Flammability test- Ignition source: smouldering cigarette
BS EN 1021-1:2014

Test Specification

Side Tested:	Face
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Filling Specification

Filling Type:	Polyurethane foam
Size:	450 x 300 x 75 mm (back) & 450x150x 75 mm (seat)
Density/Hardness:	20-22 kg/m ³ , Type B Hardness grade130

Pre-treatment / Durability procedure

None

Conditioning

Prior to testing:	At least 72 hours in ambient indoor conditions, then at least 24 hours in an atmosphere having a temperature of 23±2°C and a relative humidity of 50±5%
At time of testing:	Temperature of 10°C to 30°C and a relative humidity of 15% to 80% Air flow rate of less than 0,2 m/s

Test Method	Pre Treatment	Requirements	Result
BS EN 1021-1: 2014 (Smouldering Cigarette)	None	As BS EN 1021-1: 2014 (Smouldering Cigarette)	PASS

	Specimen 1	Specimen 2
Criterion of ignition		
Smouldering Criteria		
Unsafe escalating combustion (3.1a)	NO	NO
Test assembly consumed (3.1b)	NO	NO
Smoulders to extremities (3.1c)	NO	NO
Smoulders through thickness (3.1c)	NO	NO
Smoulders more than 1 hour (3.1d)	NO	NO
In final examination, presence of activesmouldering (3.1e)	NO	NO
Flaming criteria	NO	NO
Occurrence of flames (3.2)	NO	NO
Comments		
Flaming ceased	-	-
Glowing ceased	-	-
Smoke ceased	-	-
Result (Non Ignition / Smouldering Ignition / Flaming Ignition)	NI	NI

Y: Yes N: No NA: Not Applicable P: Pass F: Fail

