

FLAMMABILITY TEST REPORT

Report No.: LEHTX00710073 Date Received: 09/10/13 Date Tested: 15/10/13 Date Issued: 15/10/13

Company Name & Address: MEROWINGS INTERNATIONAL GMBH & CO. KG
SAUERLAND STRASSE 20
70469
STUTTGART
GERMANY

Contact Name: MEENA VALAIL-DIETER

Sample Details

Reference No.: Not stated
Style No.: Forest Bark
Batch No.: 1
Quality: Arizona
Colour: Not stated
Supplier: Not stated
Intended Use: Seats / Sofas / Bean bags
Fibre Composition: 100% PES
Retailer: Not stated
Sample Description: White coloured woven fabric with a multicoloured printed coating

Test Method	Pre Treatment	Requirement	Result
BS 5852: Part 1: 1979, Ignition source 0 (Cigarette)	Water soaked 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).	Complies
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			
BS 5852: Part 1: 1979, Ignition source 1 (Match)	Water soaked 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 5 Part 1 (The match test) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended).	Complies



ANDREW HALLETT
(Flammability Technician)

CAROLE SPOWART
(Flammability Technician)

SIMON CHEE
(Operations Manager)

STEVEN OWEN
(Chemical Technologist)

FLAMMABILITY TEST REPORT

Test Specification

Test Method: BS 5852: Part 1: 1979 as modified by Schedule 4 Part 1 & Schedule 5 Part 1 of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended).

Ignition Sources: Ignition source 0: Calibrated Senior Service cigarette
Ignition source 1: Butane Gas flowing at 45ml/min @ 25°C.

Flame Application Time: 20±1 seconds

Side Tested: Face

Filling Specification

Filling Type: Polyurethane foam

Supplier / Grade: Carpenter / RP21130 unmodified

Size: 450 X 300 X 75mm (back) & 450 X 150 X 75mm (seat)

Density / Hardness: 20-22 kg/m³ / Type B, 130

Pre-Treatment / Durability Procedure

Water soaked 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.

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 between 15°C & 30°C. Relative humidity between 20% & 70%

Test Results

"The following test results relate only to the ignitability of the combinations 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."

Ignition source 0 (Test 1):	The cigarette burnt out within 23 minutes, there was no flaming or progressive smouldering. (Pass)
Ignition source 0 (Test 2):	The cigarette burnt out within 24 minutes, there was no flaming or progressive smouldering. (Pass)
Ignition source 1 (Test 1):	Flaming ceased with the removal of the burner, there was no progressive smouldering. (Pass)
Ignition source 1 (Test 2):	Flaming ceased with the removal of the burner, there was no progressive smouldering. (Pass)

Conclusions

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

The fabric tested meets the requirements of Schedule 5 Part 1 (The match test) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended). **PASS.**

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FLAMMABILITY TEST REPORT

Report No.: LEHTX00710074 **Date Received:** 09/10/13 **Date Tested:** 15/10/13 **Date Issued:** 15/10/13

Company Name & Address: MEROWINGS INTERNATIONAL GMBH & CO. KG
SAUERLAND STRASSE 20
70469
STUTTGART
GERMANY

Contact Name: MEENA VALAIL-DIETER

Sample Details

Reference No.: Not stated
 Style No.: Forest Bark
 Batch No.: 1
 Quality: Arizona
 Colour: Not stated
 Supplier: Not stated
 Intended Use: Seats / Sofas / Bean bags
 Fibre Composition: 100% PES
 Retailer: Not stated
 Sample Description: White coloured woven fabric with a multicoloured printed coating

Test Method	Requirement	Result
16 C.F.R. Sec. 1610	State of California Home Furnishings Act, Bulletin 117 Section E- Upholstery Fabrics	Class 1 (Normal flammability)



ANDREW HALLETT
(Flammability Technician)

CAROLE SPOWART
(Flammability Technician)

SIMON CHEE
(Operations Manager)

STEVEN OWEN
(Chemical Technologist)



FLAMMABILITY TEST REPORT

Evaluation of test results

The sample submitted for testing is rated as a **Class 1** material (normal flammability) when tested and classified in accordance with procedures and requirements of the Federal Flammable Fabrics Act. Therefore, this fabric meets the standards set forth in the State of California Home Furnishings Act, Bulletin 117 Section E – Upholstery Fabrics.

Test Results

	Plain Surface	Face	Back
Test 1	Length	DNI	DNI
Test 2	Length	DNI	DNI
Test 3	Length	DNI	DNI
Test 4	Length	DNI	DNI
Test 5	Length	DNI	DNI
Test 6	Width	DNI	DNI
Test 7	Width	DNI	DNI
Test 8	Width	DNI	DNI
Test 9	Width	DNI	DNI
Test 10	Width	DNI	DNI

DNI – Did Not Ignite

Requirements

1. Raised surface fabric: 7.0 Seconds Minimum Average or Non Ignition.
2. Plain surface fabrics: 3.5 Seconds Minimum Average or Non Ignition.

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FLAMMABILITY TEST REPORT

Report No.: LEHTX00719331 Date Received: 31/12/13 Date Tested: 02/01/14 Date Issued: 02/01/14

Company Name & Address: MEROWINGS INTERNATIONAL GMBH & CO. KG
SAUERLAND STRASSE 20
70469
STUTTGART
GERMANY

Contact Name: MEENA VALAIL-DIETER

Sample Details

Reference No.: Not stated
Style No.: Corovin FR 100g/m²
Batch No.: 1
Quality: 100g/m²
Colour: Brown
Supplier: Duko
Intended Use: Seats / Sofas / Bean bags
Fibre Composition: Not stated
Retailer: Not stated
Sample Description: Light brown coloured non woven fabric

Test Method	Requirement	Result
16 C.F.R. Sec. 1610	State of California Home Furnishings Act, Bulletin 117 Section E- Upholstery Fabrics	Class 1 (Normal flammability)



ANDREW HALLETT
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(Flammability Technician)

SIMON CHEE
(Operations Manager)

STEVEN OWEN
(Chemical Technologist)

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FLAMMABILITY TEST REPORT

Evaluation of test results

The sample submitted for testing is rated as a **Class 1** material (normal flammability) when tested and classified in accordance with procedures and requirements of the Federal Flammable Fabrics Act. Therefore, this fabric meets the standards set forth in the State of California Home Furnishings Act, Bulletin 117 Section E – Upholstery Fabrics.

Test Results

	Plain Surface	Face	Back
Test 1	Length	IBE	IBE
Test 2	Length	IBE	IBE
Test 3	Length	IBE	IBE
Test 4	Length	IBE	IBE
Test 5	Length	IBE	IBE
Test 6	Width	IBE	IBE
Test 7	Width	IBE	IBE
Test 8	Width	IBE	IBE
Test 9	Width	IBE	IBE
Test 10	Width	IBE	IBE

IBE – Ignited but extinguished

Requirements

1. Raised surface fabric: 7.0 Seconds Minimum Average or Non Ignition.
2. Plain surface fabrics: 3.5 Seconds Minimum Average or Non Ignition.

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FLAMMABILITY TEST REPORT

Report No.: LEHTX00722068 **Date Received:** 31/12/13 **Date Tested:** 15/01/14 **Date Issued:** 20/01/14

Company Name & Address: MEROWINGS INTERNATIONAL GMBH & CO. KG
SAUERLAND STRASSE 20
70469
STUTTGART
GERMANY

Contact Name: MEENA VALAIL-DIETER

Sample Details

Reference No.: Not stated
 Style No.: French Fries FR
 Batch No.: 1
 Quality: Not stated
 Colour: Multicoloured
 Supplier: Duko
 Intended Use: Seats / Sofas / Bean bags
 Fibre Composition: Not stated
 Retailer: Not stated
 Sample Description: Multicoloured Polyurethane foam snippets



Test Method	Pre Treatment	Flammability Performance Requirement	Result
CA TB 117 – Section D Part 1	None	California Bureau of Home Furnishings Bulletin 117 Section D Part 1: Resilient Filling Materials – Cigarette Resistance.	PASS

Please Note: This test was carried out by a third party laboratory.

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 STEVEN OWEN
 (Chemical Technologist)



 ANDREW HALLETT
 (Flammability Technician)

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 CAROLE SPOWART
 (Flammability Technician)

.....
 SIMON CHEE
 (Operations Manager)

FLAMMABILITY TEST REPORT

TEST RESULTS

CA TB 117 – Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture -Section D Part 1:
Resilient Filling Materials – Cigarette Resistance

The filling material submitted **does pass** the flame resistance requirements when tested in accordance with the California Bureau of Home Furnishings Bulletin 117 Section D Part 1: Resilient Filling Materials – Cigarette Resistance.

	UNCOVERED		SHEETED	
	Char Length (inches)	Char Width (inches)	Char Length (inches)	Char Width (inches)
Specimen 1	0.3	0.4	0.3	0.2
Specimen 2	0.4	0.3	0.2	0.2
Specimen 3	0.4	0.4	0.3	0.3

Measure to the nearest 0.1 inch and gram.

Requirements:

- 1. All resilient filling materials other than cellular materials (such as foams) shall meet the requirements of this procedure.**
- 2. The maximum char length of any specimen shall not exceed 2 inches in any direction from the cigarette.**
- 3. Resilient cellular materials shall meet the requirements of Section D, Part 2.**

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