



Client: Crevin, s.a.
Pol.Ind.Santa Margarita I
C/Llobregat, 21
08223 Terrassa (BCN)
Spain

Entry No: 64125

Date received: 04/03/2014

Client's Description: 3 samples of fabric Fusion:- Colours 07, 41, 45

TEST REPORT

Test Required: Colour Fastness to Rubbing
Method of Test: BS EN ISO 105-X12 : 2002
Date of Test: 06.03.14 to 07.03.14

		<u>Dry</u>	<u>Wet</u>
07:-	Warp	4-5	5
	Weft	4-5	5
41:-	Warp	5	4-5
	Weft	5	4-5
45:-	Warp	4-5	4-5
	Weft	4-5	4-5

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

Geoff Briggs C.Text., A.T.I.
Head of laboratory
12th march 2014



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CREVIN, S.A.
LLOBREGAT, 21-P.STA.MARGARITA-
08223 - TERRASSA
BARCELONA

TECHNICAL REPORT

Report Nº: IN-00598/2015-E-4
Pages: 2

PRESENTED SAMPLE

Sample description:

A sample of fabric to upholstery referenced as: "ARTÍCULO: FUSION"

Presentation date: 05/09/13

REQUESTED TESTS

Tests according to standard UNE EN 14465:2004/A1:2007: "TEXTILE UPHOLSTERY FABRIC. Specification and method of test":

- PILLING RESISTANCE
Standard UNE EN ISO 12945-2:2001

Performance dates: from 05/09/13 to 16/09/13

"This report is a partial copy and traslation of the report no. IN-01969/2013-2 issued by LEITAT on the 25 of September 2013".



Textile Unit Coordinator
Yolanda Cabrejas



Textile Technical Manager
Miquel Morera

Firmado digitalmente por MIGUEL MORERA ESCUDÉ
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Certificate: CAM-PF-SW-KPSC
Fecha: 2015.03.09 13:27:27 +01'00'

Terrassa, March 09th, 2015.

PILLING RESISTANCE



Standard UNE EN ISO 12945-2:2001

Scope: This test is intended to determine fabric propensity to surface fuzzing and to pilling.

Conditioning of the specimens: 24 hours to 20°C ± 2°C - 65 % ± 4 % h.r.

Equipment used: Modified Nu – Martindale equipment.

Test conditions:

Test atmosphere: 20°C ± 2°C - 65% ± 4% h.r.

Type of abrasive: Rubbing against a standard wool fabric (UNE EN ISO 12947-1)

Load elements mass: 415 ± 2 g.

Number of cycles: 2.000 – 7.000 (requested by the client.)

Number of specimens tested: 4

Number of observers: 3

Previous treatment: Null

Results obtained:

	2.000	7.000
Pilling index	4-5	4-5
Aspect of the surface	Fuzzing	

Interpretation of index or pilling according to the standard UNE EN ISO 12945/2:2001

1	Thick fuzzing and/or pilling on the surface. Pills of several sizes and densities covering the surface of the specimen completely.
2	Evident fuzzing and/or pilling on the surface. Pills of several sizes and densities covering the surface of the specimen largely.
3	Moderated fuzzing and/or pilling on the surface. Pills of several sizes and densities covering the surface of the specimen partially.
4	Slight fuzzing and/or pilling on the surface
5	No change.

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LLOBREGAT, 21-P.STA.MARGARITA-
08223 - TERRASSA
BARCELONA

TECHNICAL REPORT

Report Nº: **IN-00598/2015-E-3**
Pages: **2**

PRESENTED SAMPLE

Sample description:

A sample of fabric to upholstery referenced as: **"ARTÍCULO: FUSION"**

Presentation date: 05/09/13

REQUESTED TESTS

Tests according to standard **UNE EN 14465:2004/A1:2007**: **"TEXTILE UPHOLSTERY FABRIC. Specification and method of test"**:

- **ABRASION RESISTANCE.**
Standard **UNE EN ISO 12947-2:1999.**

Performance dates: from 05/09/13 to 16/09/13

"This report is a partial copy and traslation of the report no. IN-01969/2013-2 issued by LEITAT on the 25 of September 2013".



Textile Unit Coordinator
Yolanda Cabrejas



Textile Technical Manager
Miquel Morera

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Certificate: CAM-PF-SW-KPSC
Fecha: 2015.03.09 13:26:49 +01'00'

Terrassa, March 9th, 2015.

ABRASION RESISTANCE

Standard UNE EN ISO 12947-2:1999

Scope: This test is intended to determine the abrasion resistance of fabrics by means of the Martindale method.

Equipment used: Abrasion tester Nu – Martindale.

Conditioning of the specimens: 24 hours to $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ - 65 % \pm 4 % h.r.

Test conditions:

Test atmosphere: $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ - 65% \pm 4% h.r.

Abrasive: Rubbing against a standard wool fabric (UNE EN ISO 12947-1)

Test pressure: 12 kPa (795 ± 7 g)

Final point:

- Valuation of the change of color to 3.000 cycles according to standard UNE-EN 14465:2004/ A1:2007 (Annex A) and UNE-EN ISO 105 – A02.

Number of specimens tested: 3

Previous treatment: Null

Results obtained:

Valuation of the change of color to 3.000 cycles according to
standard UNE EN ISO 105-A02

index grey-scale

4-5

	Doc. nr. : SK-70	
	Page : 1 of 1	
	Revision nr. : 5	
	Approved by : BV	
<p align="center">Test report Martindale Abrasion NS-EN 12947-2 :1999</p>		

Client Crevin,s.a. Pol.Ind.Sta. Margarita c/ Llobregat, 21 08223 Terassa (Barselona) Spania		Product FUSION-1 Product specification - tested object	
Client's reference Pep Margarit		R-no. R15019	
Date 22.11.2013	Date of receipt, tested object 12.11.2013	Test completed date 22.11.2013	Rev. no. / Rev. date 0/

Manufacturer:

Composition: 34%WO, 28%PES, 23%PP, 15%CO

Pressure : 795 g(12 kPa) Type felt: Woven

The samples are conditioned at 20 degrees C and 65 % relative humidity for 18 hours

Determination of the abrasion resistance of textiles on a Martindale testmachine according to NS-EN 12947-2. Circular specimens of fabric are abraded against a reference fabric. For woven fabrics the resistance to abrasion is estimated by number when two threads are broken.

For pile fabrics the resistance to abrasion is estimated by the number of cycles when the pile is fully worn off. For nonwovens the resistance to abrasion is estimated by the number when there is a hole of 0.5mm.

The average of four samples gives the results. The test is stopped and evaluated every 2000 cycles.

The last value before breakdown is therefore 2000 cycles lower than the given value.

<p>Sample no. 1: 62000</p> <p>Sample no. 2: 62000</p> <p>Sample no. 3: 62000</p> <p>Sample no. 4: 62000</p> <p>Average 4 Samples: 62000</p>
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Comments:

Deviations from test standards: 3 yarns breaking



Bård Vestre
Manager

Client: Crevin, s.a.
Pol.Ind.Santa Margarita I
C/Llobregat, 21
08223 Terrassa (BCN)
Spain

Entry No: 64128-01

Date received: 04/03/2014

Client's Description: Sample of fabric Fusion

TEST REPORT

Test Required: Flammability in accordance with The Furniture and Furnishings (Fire) (Safety) Regulations 1988 and Amendments Schedule 4 Part I and Schedule 5 Part I

Pre-treatment: None

Conditioning: A minimum of 96 hours at 50 +/- 20% Relative Humidity, 20 +/- 5°C

Method of Test: BS 5852 : Part 1 : 1979

Date of Test: 13/03/2014

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.

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

Note: 20-22 kg/m³ non fire retardant polyurethane foam was used as the filling.

Comments

On the basis of the tests carried out this sample of fabric meets the requirements of Schedule 4 Part I and Schedule 5 Part I.

-----End of Document-----

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D Brockbank
Senior Technologist
14th March 2014

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Client: Crevin, s.a.
Pol.Ind.Santa Margarita I
C/Llobregat, 21
08223 Terrassa (BCN)
Spain

Entry No: 68661

Date received: 29/01/2015

Client's Description: Sample of fabric: Fusion

TEST REPORT

Test Required: Flammability BS 7176 Low Hazard
Pre-treatment: None
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: 13/02/2015

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	No flaming or progressive smouldering was observed after removal of the butane flame.	PASS

Note: A 35 kg/m³ CMHR foam (Carpenters RX36-125) which meets the requirements of Annex A of BS 7176 was used as the filling

The above 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.

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 low 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.

-----End of Document-----

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D. Brockbank.
Materials Testing Manager
16th February 2015

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Client: Crevin, s.a.
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08223 Terrassa (BCN)
Spain

Entry No: 64128

Date received: 04/03/2014

Client's Description: Sample of fabric Fusion

TEST REPORT

Test Required: Flammability
Pre-treatment: None
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: 13/03/2014

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: 20-22 kg/m³ non fire retardant polyurethane foam 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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D Brockbank
Senior Technologist
14th March 2014

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