

West Yorkshire Materials Testing Service PO Box 5, Nepshaw lane South, Morley, Leeds LS27 0QP Tel: 0113 253 0241 Fax: 0113 252 7029 Head of Laboratory: G. Briggs C. Text ATI

Client:		Crevin, s.a. Pol.Ind.Santa Marga C/Llobregat, 21 08223 Terrassa (BC Spain		
Entry I	No:	64125		
Date re	eceived:	04/03/2014		
Client '	s Description:	3 samples of fabric F	Fusion:- Colours 07, 41, 45	
		ті	EST REPORT	
Test Required: Method of Test: Date of Test:		Colour Fastness to Rubbing BS EN ISO 105-X12 : 2002 06.03.14 to 07.03.14		
		Dry	Wet	
07:-	Warp Weft	4-5 4-5	5 5	
41:-	Warp Weft	5 5	4-5 4-5	
45:-	Warp Weft	4-5 4-5	4-5 4-5	

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

TECHNICAL REPORT

Report N°: 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

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Textile Technical Manager Miquel Morera

Terrassa, March 09th, 2015.

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Nº 18/LE 026

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

Equipment used: Modified Nu - Martindale equipment.

Test conditions:

Test atmosphere: $20^{\circ}C \pm 2^{\circ}C - 65\% \pm 4\%$ 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	Fuz	zing

	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.





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

TECHNICAL REPORT

Report N°: 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

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Textile Unit Coordinator Yolanda Cabrejas

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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°C ± 2°C - 65 % ± 4 % h.r.

Test conditions:

Test atmosphere: 20°C ± 2°C - 65% ± 4% h.r.	
Abrasive: Rubbing against a standard wool fabric (UNE EN ISO 12947-1)	
Test pressure: 12 kPa (795 ± 7 g)	
Final point:	
Velocities of the change of color to 2,000 molecular counding to stand	

- 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

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	MØBELLABORATORIET AS			Page	: 1 of 1	t
MØDELLADUKATURIET AS			2	Revision nr.	: 5	TTTT
				Approved by	:BV	\bigcirc
Test report Martinda NS-EN 12947-2 :				on		NORSK AKKREDITERING TEST 082
Client			Product			
Crevin,s.a.			FUSION	FUSION-1		
Pol.Ind.Sta. M	argarita					
c/ Llobregat, 21 08223		Product specification	Product specification - tested object			
Terassa (Barselona)						
Spania						
Client's reference			R-no.	R-no.		
Pep Margarit		R15019	R15019			
Date		Date of receipt, tested object	Test completed date		Rev. no. / Rev	v. date
22.11.2013		12.11.2013	22.11.2013		0/	

Manufacturer:

Composition:

Pressure : 795 g(12 kPa)

Type felt: Woven

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

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.

Sample no. 1:	62000
Sample no. 2:	62000
Sample no. 3:	62000
Sample no. 4:	62000
Average 4 Samples:	62000

Comments:

Deviations from test standards: 3 yarns breaking

Bård Vestre Manager

Org.nr. 985 981 922

Møbellaboratoriet as

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Postboks 233, 6239 Sykkylven, Tlf 70 25 29 34, Faks 70 25 16 89, e-post:post@mobellab.no Prøvingsresultatene gjelder utelukkende de prøvede objekter. Utdrag fra rapporten må ikke gjengis uten skriftlig godkjenning fra Møbellaboratoriet as. Test results only relate to the items tested. Extracts from the report may not be reproduced without the written concent from Møbellaboratoriet as.



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	PASS
	hour of placement of the cigarettes.	
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.

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





D Brockbank Senior Technologist 14th March 2014

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 Test marked (*) in this certificate are not included in the UKAS Accreditation
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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
Conditioning: Method of Test:	A minimum of 24 hours at 50 +/- 5% Relative Humidity, 23 +/- 2° C BS EN 1021-1: 2006 – smouldering cigarette BS EN 1021-2: 2006 – match flame equivalent

Ignition Source	Observations	Result
Smouldering	No flaming or progressive smouldering was observed within one	PASS
cigarette	hour of placement of the cigarettes.	
Match flame	No flaming or progressive smouldering was observed after	PASS
equivalent	removal of the butane flame.	

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.

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

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D. Brockbank. Materials Testing Manager 16th February 2015

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Client:	Crevin, s.a. Pol.Ind.Santa Margarita I C/Llobregat, 21 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 $^{\circ}$
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	No flaming or progressive smouldering was observed within one	PASS
cigarette	hour of placement of the cigarettes.	
Match flame	Flaming ceased within the specified two minute period after removal	PASS
equivalent	of the butane flame and no progressive smouldering occurred.	

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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