

Test report - Abrasion Resistance
EN ISO 12947/4:1998, EN 14465:2003
(Shade change 3000 cycles)

Client Crevin,s.a. Pol. Ind. Santa Margarita I C/ Llobregat, 21 08223 TERRASSA Spain		Product GALAXY Product specification - tested object	
Client's reference Pep Margarit		R-no. R16198	
Date 13.12.2017	Date of receipt, tested object 05.12.2017	Test completed date 13.12.2017	Rev. no. / Rev. date 1/15.02.2018

Manufacturer:

Crevin

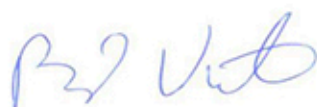
Composition:

56% WO 20% PP 12% PES 7% MA 5% CO

Pressure : 795 g(12 kPa)

Type felt: Woven

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

Results:**3000 Cycles:****4****Comments:****Deviations from test standards:**

Bård Vestre
Manager

Test report Textile Pilling
NS-EN ISO 12945-2 :2000

Client Crevin,s.a. Pol. Ind. Santa Margarita I C/ Llobregat, 21 08223 TERRASSA Spania		Product GALAXY Product specification - tested object	
Client's reference Pep Margarit		R-no. R16198	
Date 15.12.2017	Date of receipt, tested object 05.12.2017	Test completed date 15.12.2017	Rev. no. / Rev. date 1/15.02.2018

Manufacturer: Crevin

Composition: 58% WO 20% PP 12% PES 7% MA 5% CO

Loading Mass : 415 g Type felt: Woven

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

Numerical assessment of pilling is done on a Martindale abrasion tester according to NS-EN ISO 12945-2. The samples are given a multi-directional movement and are rubbed against fabric of 100% wool (SM 25). 3 samples are used and they are examined on 500, 1000, 2000 and 5000 rubs. The average on each stage is reported as the pilling grade.

The samples are examined on a scale from 1-5 where 5 is best. Examined by 1 person.

Results:
2000 Cycles: 5
7000 Cycles: 5**Comments:****Deviations from test standards: 2000,7000 cycles****Bård Vestre**
Manager

**Test report Seam Slippage
NS-EN 13936-2**

Client Crevin,s.a. Pol. Ind. Santa Margarita I C/ Llobregat, 21 08223 TERRASSA Spania		Product GALAXY Product specification - tested object	
Client's reference Pep Margarit		R-no. R16198	
Date 19.12.2017	Date of receipt, tested object 05.12.2017	Test completed date 18.12.2017	Rev. no. / Rev. date 1/15.02.2018

MANUFACTURER: Crevin

COMPOSITION: 56% WO 20% PP 12% PES 7% MA 5% CO

Determination of the seam tension properties according to NS EN ISO 13936-2.

Five specimens are taken in each direction.

The test specimens are folded and sewn. The specimens are set in a tensile strength tester.

A force of 180 N is applied. The gap is measured in mm to nearest 0,5 mm.

SEAM PARALLELL TO WEFT:**SEAM PARALLELL TO WARP:**

Sample no.1:	2,0 mm	2,0 mm
Sample no.2:	2,0 mm	2,0 mm
Sample no.3:	2,0 mm	2,0 mm
Sample no.4:	2,0 mm	2,0 mm
Sample no.5:	2,0 mm	2,0 mm
Average seam gap:	2,0 mm	2,0 mm

Comments:**Deviations from test standards:****Bård Vestre
Manager**

**Test report Resitance against rubbing
EN ISO 105 X12**

Client Crevin,s.a. Pol. Ind. Santa Margarita I C/ Llobregat, 21 08223 TERRASSA		Product GALAXY	
Client`s reference Pep Margarit		Product description	
Date 15.12.2017		R-no. R16198	
Revision nr./Revision date 1/15.02.2018	Date of receipt, tested object 05.12.2017	Test completed date 14.12.2017	

MANUFACTURER:	Crevin
COMPOSITION:	56% WO 20% PP 12% PES 7% MA 5% CO

A white piece of fabric is rubbed against the testspecimen.
Two tests are performed: one dry and one wet.
The grade goes from 1 to 5 with 5 as the best.

RESULT DRY: 4/5**RESULT WET: 4****Comments:****Deviations from test standards:**

Bård Vestre
Manager

**Test report Martindale Abrasion
NS-EN ISO 12947-2 :2016**

Client Crevin,s.a. Pol. Ind. Santa Margarita I C/ Llobregat, 21 08223 TERRASSA Spania		Product GALAXY Type of fabric - tested object	
Client's reference Pep Margarit		R-no. R16291	
Date 19.04.2018	Date of receipt, tested object 16.04.2018	Test completed date 19.04.2018	Rev. no. / Rev. date 0/

Manufacturer: Crevin
Composition: 58% WO,19% PP,15% PES,4% 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 test machine 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 and chenille 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 2.5mm.

The lowest value of four samples gives the results.

Sample no. 1: 35 000
Sample no. 2: 35 000
Sample no. 3: 35 000
Sample no. 4: 35 000
Result: 35 000

Significant change in appearance: 5000 cycles

Comments:

Deviations from test standards: 3 Yarns breaking



Bård Vestre
Manager

INFORME DE ENSAYO / TEST REPORT

Nº **2018AN0583**

FECHA RECEPCIÓN
DATE OF RECEPTION

27/02/2018

SOLICITANTE / APPLICANT

CREACIONES DE VELOURS INDUSTRIALES,
SA(CREVIN)
C/ LLOBREGAT, 21
ES-08223 Terrassa
Barcelona

Att. PEP MARGARIT

FECHA ENSAYOS
DATE TEST

Inicio / Starting: 27/02/2018
Finalización / Ending: 08/03/2018

DESCRIPCIÓN
E IDENTIFICACIÓN
DE LAS MUESTRAS

DESCRIPTION AND
IDENTIFICATION OF
SAMPLES

MUESTRAS REFERENCIADAS / SAMPLES REFERENCED:

-"TEJIDO GALAXY".

ENSAYOS
REALIZADOS

TESTS CARRIED OUT

- SISTEMA DE ENSAYO Y CLASIFICACIÓN PARA LA EVALUACION DE LA
RESISTENCIA AL CIGARRILLO EN COMBUSTION DE LOS COMPONENTES DE
MUEBLES TAPIZADOS / TEST AND CLASSIFICATION SYSTEM FOR CIGARETTE IGNITION
RESISTANCE OF COMPONENTS OF UPHOLSTERED FURNITURE

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SE ADJUNTAN
ATTACHED

MUESTRA(S)
SAMPLE(S)

LACRADA(S)
SEALED

PÁG.
PAGE

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DE
OF

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RESULTADOS / RESULTS

SISTEMA DE ENSAYO Y CLASIFICACIÓN PARA LA EVALUACION DE LA RESISTENCIA AL CIGARRILLO EN COMBUSTION DE LOS COMPONENTES DE MUEBLES TAPIZADOS

TEST AND CLASSIFICATION SYSTEM FOR CIGARETTE IGNITION RESISTANCE OF COMPONENTS OF UPHOLSTERED FURNITURE

Norma

Standard

CALIFORNIA TECHNICAL BULLETIN 117-2013; Section 1: Cover Fabric test

Incertidumbre de la muestra

Sample uncertainty

$\pm 0,554$ s; $\pm 2,393$ mm

Desviaciones de la norma

Standard deviations

Acondicionamiento

Standard conditioned

24 h. (mínimo) 21 ± 3 °C y/and 55 % HR.

Condiciones ambientales de ensayo

Ambiental condition test

24.6 °C y/and 32.0 %HR

Velocidad del aire

Speed air

0.08 m/s

Sustrato

Substratum

Espuma de poliuretano no retardante de llama de densidad comprendida entre 20-22 Kg/m³

Non-fire retardant polyurethane foam having density of 20-22 Kg/m³

Cobertura

Covering

Tipo I Tejido 100% algodón conforme a Federal Specification CCC.C.438.E.

Type I 100% cotton fabric as a cover according to Federal Specification CCC.C.438.E.

Descripción del material

Material description

Tejido marrón y gris, con un gramaje aproximado de 566 g/m². Composición: 58% lana – 19% polipropileno - 17% poliéster - 6% algodón. Referencia: "TEJDO GALAXY", según cliente.

Brown and grey fabric, with an estimated weight of 566 g/m². Composition: 58% wool – 19% Polypropylene – 17% polyester – 6% cotton. Reference: "FABRIC GALAXY", according to client.

Fecha ensayo

Date test

06/03/2018

>>>



RESULTADOS / RESULTS

Fuente de ignición Ignition source

Cigarrillo en combustión Smouldering cigarette

- a) El cigarrillo se consume por completo (Si/No)
Cigarette smolders completely (Yes/No)
- b) Duración de la combustión (min:s)
Smolder duration (min:s)
- c) Longitud quemada (mm)
Char development (mm)
- d) Evolución a combustión con llama
Unsafe escalating combustion.
- e) Longitud destruida superior a 45 mm. desde la fuente de ignición (Si/No)
Destroyed length more than 45 mm. from source (Yes/No)
- f) Resultado: P = Pasa | F = Falla
Result: P = Pass | F = Fail.

Referencia Reference

TEJIDO GALAXY

Probeta Specimen	a	b	c	d	e	F
Probeta 1 Specimen 1	Si / Yes	20:12	3	No	No	P
Probeta 2 Specimen 2	Si / Yes	15:34	5	No	No	P
Probeta 3 Specimen 3	Si / Yes	19:53	2	No	No	P

Observaciones Notes

Durante el ensayo se observa moderada emisión de humos blancos.
A moderate emission of white smoke was observed during the test.

RESULTADOS DE ACUERDO CON LA NORMA
CAL TB 117-2013, SECTION 1: COVER FABRIC TEST
Results of agreement with the standard
CAL TB 117-2013; SECTION 1: COVER FABRIC TEST

CUMPLE
PASS

///



RESULTADOS / RESULTS

CRITERIOS

Ninguna muestra puede presentar signos de combustión latente después de 45 min

The mock-up test specimen continues to smolder after the 45 minute test duration

No debe haber evidencias de ignición tras el ensayo en ninguna probeta.

La longitud vertical quemada no debe exceder los 45 mm en ninguna probeta.

All tests assemblies shall show no evidence of ignition after the test. The vertical char on any of the three specimens shall not exceed 45mm.

///



Celia Dolça
Responsable Lab. Comportamiento al
fuego
Head of Fire Behaviour lab.

Digitally signed by CELIA DOLCA
CAMANEZ - NIF:216961225
Date: 2018.03.08 15:20:06 +01:00
Reason: Autorizado
Location: Alcoy



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- 12.- Los laboratorios de AITEX se encuentran en Alcoy.
- 13.- El cliente debe prestar atención, en todo momento, las fechas para la realización de los ensayos.

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- 7.- AITEX may include in its reports, analyses, results, etc., any other evaluation which it considers necessary, even when it has not been specifically requested.
- 8.- The uncertainties of the tests, which are made explicit in the Results Report, have been estimated for a $k = 2$ (probability of coverage of 95%). If not informed, they are available to the client in AITEX.
- 9.- The original materials and rests of samples, not subject to test, will be retained in AITEX during the twelve months following the issuance of the report, so that any check or claim which, in his case, wanted to make the applicant, should be exercised within the period indicated.
- 10.- This report may only be sent or delivered by hand to the applicant or to a person duly authorised by the same.
- 11.- The results of the tests and the statement of compliance with the specification in this report refer only to the test sample as it has been analyzed / tested and not the sample / item which has taken the test sample.
- 12.- AITEX laboratories are placed in Alcoy.
- 13.- The client must attend at all times, the dates for conducting the tests.



TEST REPORT

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

Entry No: 95102

Date received: 08/02/2018

Client's Description: Sample of fabric: GALAXY, 58%WO 19%PP 17%PES 6%CO

Test Required: Flammability BS 7176 Low Hazard

Pre-treatment: None

Conditioning: A minimum of 24 hours at 50+/-5% Relative Humidity, 23+/-2°C

Date Tests Completed: 26/02/2018

Method of Test: BS EN 1021-1: 2006 – smouldering cigarette
BS EN 1021-2: 2006 – match flame equivalent

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: A 35 kg/m³ CMHR foam (Carpenters RX36-125) 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.

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-----

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



Dale Brockbank
Materials Testing Manager
26 February 2018

❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
❖ Uncertainty budgets for test methods contained within this report are available on request.
This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



1104



TEST REPORT

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

Entry No: 95102-01

Date received: 08/02/2018

Client's Description: Sample of fabric: GALAXY, 58%WO 19%PP 17%PES 6%CO

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

Date Tests Completed: 26/02/2018

Method of Test: BS 5852: Part 1: 1979

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

Comments

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

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

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



Dale Brockbank
Materials Testing Manager
26 February 2018

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 - ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
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1104



TEST REPORT

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

Entry No: 95102-02

Date received: 08/02/2018

Client's Description: Sample of fabric: GALAXY, 58%WO 19%PP 17%PES 6%CO

Test Required: Flammability

Pre-treatment: None

Conditioning: A minimum of 24 hours at 50+/-5% Relative Humidity, 23+/-2°C

Date Tests Completed: 26/02/2018

Method of Test: BS EN 1021-1:2014 – smouldering cigarette
BS EN 1021-2:2014 – match flame equivalent

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
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: A 35 kg/m³ CMHR foam (Carpenters RX36-125) 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.

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

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



Dale Brockbank
Materials Testing Manager
26 February 2018

❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
❖ Tests marked ^F in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
❖ Uncertainty budgets for test methods contained within this report are available on request.
This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



1104