

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

|                                                                                                                                        |                                                     |                                                                 |                                             |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------|
| Client<br><b>Crevin,s.a.</b><br><b>Pol. Ind. Santa Margarita I</b><br><b>C/ Llobregat, 21</b><br><b>08223 TERRASSA</b><br><b>Spain</b> |                                                     | Product<br><b>XEON</b><br>Product specification - tested object |                                             |
| Client's reference<br><b>Pep Margarit</b>                                                                                              |                                                     | R-no.<br><b>R16197</b>                                          |                                             |
| Date<br><b>13.12.2017</b>                                                                                                              | Date of receipt, tested object<br><b>05.12.2017</b> | Test completed date<br><b>13.12.2017</b>                        | Rev. no. / Rev. date<br><b>1/15.02.2018</b> |

Manufacturer:

Crevin

Composition:

63% WO 18% 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

**Results:**

**3000 Cycles: 5**

**Comments:**

**Deviations from test standards:**



**Bård Vestre**  
Manager

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

|                                                                                                                                         |                                                     |                                                                 |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------|
| Client<br><b>Crevin,s.a.</b><br><b>Pol. Ind. Santa Margarita I</b><br><b>C/ Llobregat, 21</b><br><b>08223 TERRASSA</b><br><b>Spania</b> |                                                     | Product<br><b>XEON</b><br>Product specification - tested object |                                             |
| Client's reference<br><b>Pep Margarit</b>                                                                                               |                                                     | R-no.<br><b>R16197</b>                                          |                                             |
| Date<br><b>15.12.2017</b>                                                                                                               | Date of receipt, tested object<br><b>05.12.2017</b> | Test completed date<br><b>15.12.2017</b>                        | Rev. no. / Rev. date<br><b>1/15.02.2018</b> |

Manufacturer: Crevin

Composition: 63% WO 18% PP 15% PES 4% 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<br><b>Crevin,s.a.</b><br><b>Pol. Ind. Santa Margarita I</b><br><b>C/ Llobregat, 21</b><br><b>08223 TERRASSA</b><br><b>Spania</b> |                                                     | Product<br><b>XEON</b><br>Product specification - tested object |                                             |
| Client's reference<br><b>Pep Margarit</b>                                                                                               |                                                     | R-no.<br><b>R16197</b>                                          |                                             |
| Date<br><b>19.12.2017</b>                                                                                                               | Date of receipt, tested object<br><b>05.12.2017</b> | Test completed date<br><b>18.12.2017</b>                        | Rev. no. / Rev. date<br><b>1/15.02.2018</b> |

MANUFACTURER: Crevin

COMPOSITION: 63% WO 18% PP 15% PES 4% 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        |
| <b>Average seam gap:</b> | <b>2,0 mm</b> | <b>2,0 mm</b> |

Comments:

Deviations from test standards:



Bård Vestre  
Manager

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

|                                                                                                      |  |                                                     |                                          |
|------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|------------------------------------------|
| Client<br><b>Crevin,s.a.<br/>Pol. Ind. Santa Margarita I<br/>C/ Llobregat, 21<br/>08223 TERRASSA</b> |  | Product<br><b>XEON</b>                              |                                          |
| Client`s reference<br><b>Pep Margarit</b>                                                            |  | Product description                                 |                                          |
| Date<br><b>15.12.2017</b>                                                                            |  | R-no.<br><b>R16197</b>                              |                                          |
| Revision nr./Revision date<br><b>1/15.02.2018</b>                                                    |  | Date of receipt, tested object<br><b>05.12.2017</b> | Test completed date<br><b>14.12.2017</b> |

|               |                             |
|---------------|-----------------------------|
| MANUFACTURER: | Crevin                      |
| COMPOSITION:  | 63% WO 18% PP 15% PES 4% 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: 5****RESULT WET: 5****Comments:****Deviations from test standards:**

**Bård Vestre**  
Manager

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

|                                                                                                                                         |                                                     |                                                          |                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|-----------------------------------|
| Client<br><b>Crevin,s.a.</b><br><b>Pol. Ind. Santa Margarita I</b><br><b>C/ Llobregat, 21</b><br><b>08223 TERRASSA</b><br><b>Spania</b> |                                                     | Product<br><b>XEON</b><br>Type of fabric - tested object |                                   |
| Client's reference<br><b>Pep Margarit</b>                                                                                               |                                                     | R-no.<br><b>R16290</b>                                   |                                   |
| Date<br><b>19.04.2018</b>                                                                                                               | Date of receipt, tested object<br><b>16.04.2018</b> | Test completed date<br><b>19.04.2018</b>                 | Rev. no. / Rev. date<br><b>0/</b> |

Manufacturer: Crevin  
Composition: 63% WO,18% 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: 40 000  
Sample no. 2: 40 000  
Sample no. 3: 40 000  
Sample no. 4: 40 000  
Result: 40 000

Significant change in appearance: 5000 cycles

**Comments:**

Deviations from test standards: 3 Yarns breaking



Bård Vestre  
Manager

# INFORME DE ENSAYO / TEST REPORT

Nº **2018AN0582**

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 XEON”.

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

ENAC es firmante del Acuerdo Multilateral (MLA), (Acuerdo de Reconocimiento Mutuo MRA) de la European Cooperation for Accreditation (EA) y de la International Laboratory Accreditation Cooperation (ILAC), en materia de ensayos. / ENAC is a signatory to the Multilateral Agreement (MLA), (MRA Mutual Recognition Agreement) of the European Cooperation for Accreditation (EA) and the International Laboratory Accreditation Cooperation (ILAC), in testing.

SE ADJUNTAN  
ATTACHED

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MUESTRA(S)  
SAMPLE(S)

LACRADA(S)  
SEALED

PÁG.  
PAGE

1

DE  
OF

5



## 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

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#### Acondicionamiento Standard conditioned

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

#### Condiciones ambientales de ensayo Ambiental condition test

24.2 °C y/and 31.5 %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/m<sup>3</sup>  
Non-fire retardant polyurethane foam having density of 20-22 Kg/m<sup>3</sup>

#### 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 beige y gris, con un gramaje aproximado de 610 g/m<sup>2</sup>. Composición: 63% lana – 18% polipropileno - 15% poliéster - 4% algodón. Referencia: "TEJDO XEON", según cliente.  
Beige and grey fabric, with an estimated weight of 610 g/m<sup>2</sup>. Composition: 63% wool – 18% Polypropylene – 15% polyester – 4% cotton. Reference: "FABRIC XEON", 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 XEON

| Probeta<br><i>Specimen</i>     | a        | b     | c  | d  | e  | F |
|--------------------------------|----------|-------|----|----|----|---|
| Probeta 1<br><i>Specimen 1</i> | Si / Yes | 17:15 | 10 | No | No | P |
| Probeta 2<br><i>Specimen 2</i> | Si / Yes | 20:10 | 5  | No | No | P |
| Probeta 3<br><i>Specimen 3</i> | Si / Yes | 18:10 | 5  | 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: 2018.03.09 13:40:05 +01:00  
Reason: Autorizado  
Location: Alcoy



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- 10.- Este informe sólo puede enviarse o entregarse en mano al solicitante o a la persona debidamente autorizada por él.
- 11.- Los resultados de los ensayos y la declaración de cumplimiento con la especificación en este informe se refieren solamente a la muestra de ensayo tal como ha sido analizada/ensayada y no a la muestra/ítem del cual se ha sacado la muestra de ensayo.
- 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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- 2.- AITEX shall not be liable in any case of misuse of the test materials nor for undue interpretation or use of this document
- 3.- The original test report is kept in AITEX. An electronic copy of it is delivered to the costumer which keeps the value from the original one as far as the security properties of the document are not violated. A hard copy of this report with the AITEX logotype sealed in all the pages, keeps the original value.
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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.
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- 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:** 95101

**Date received:** 08/02/2018

**Client's Description:** Sample of fabric: XEON, 63%WO 18%PP 15%PES 4%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/m<sup>3</sup> 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

- ❖ 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:** 95101-01

**Date received:** 08/02/2018

**Client's Description:** Sample of fabric: XEON, 63%WO 18%PP 15%PES 4%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/m<sup>3</sup> 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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1104



## TEST REPORT

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

**Entry No:** 95101-02

**Date received:** 08/02/2018

**Client's Description:** Sample of fabric: XEON, 63%WO 18%PP 15%PES 4%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/m<sup>3</sup> 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 <sup>†</sup> 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.



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