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LAB N° 0572

MESSRS:
PUGI R.G. S.R.L.
VIALE MARCONI 50/15
59100 PRATO (PO)
ITALIA

REPORT NR. 2001669-001
REPORT DATE 26/05/2020
ACCEPTANCE DATE 11/05/2020
START TEST DATE 11/05/2020
END TEST DATE 26/05/2020
SAMPLING BY CUSTOMER

TEST REPORT

SAMPLE DESCRIPTION FABRIC ART. MIRAGE SCUDO-SAN COL. 331

THE REPORT IS MADE BY THE FOLLOWING TESTS:

TEST	METHOD	ACCREDIA
6005002 Reaction to fire of upholstered furniture by the action of a small flame	UNI 9175:2010 + UNI 9176:2010	
2028011 Abrasion resistance	UNI EN ISO 12947-1:2000 + UNI EN ISO 12947-2:2017	
2032052 Determination of fabric propensity to surface fuzzing and to pilling - Martindale method C	UNI EN ISO 12945-2:2002	
3015001 Colour fastness - Artificial light	UNI EN ISO 105 B02:2014	
3008011 Colour fastness - Crocking dry and wet A	UNI EN ISO 105 X12:2016	

Technical Manager

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NOTES ANALYTICAL TESTS

- **6005002 Reaction to fire of upholstered furniture by the action of a small flame** UNI 9175:2010 + UNI 9176:2010

Info about sample (declared by the customer):

Declared composition: 100% PL.

Weight: 329 g/m² circa.

The above 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.

Conditioning times:

Cover: 48 hrs at 23±2 °C and 50±5 R.H. %.

Filling: 72 hrs at 80±5 °C and 80±5 R.H. % followed by at least 48 hrs at 23±2 °C and 50±5 R.H. %.

Filling material: PU-FR (30-33 Kg/m³) supplied by the laboratory.

Pretreatment due to UNI 9176 method D: submit samples of the test material to 200 steps of a brush with weight 15±1 g/cm² of the apparent surface of contact between the brush and the same sample.

Test assembly #1: cover sampled in parallel to the length of fabric + filling material.

Test assembly #2: cover sampled in parallel to the width of fabric + filling material.

- **2028011 Abrasion resistance** UNI EN ISO 12947-1:2000 + UNI EN ISO 12947-2:2017

The specimens have been acclimatized in atmosphere to 20±2°C and 65±4%RH in compliance with norm UNI EN ISO 139; Instrument: Martindale; CT : it shows the number of cycles at which a change in the aspect is observed and evaluated on the Grey scale for change of tone.

The individual result is the number of rubs prior to the actual End Point of the specimen.

The significant result is the lowest between the above results.

Significant changes:

Ct 6.000: 4-5 fuzzing

Ct 35.000: 4

Ct 50.000: 3-4

- **2032052 Determination of fabric propensity to surface fuzzing and to pilling - Martindale method C** UNI EN ISO 12945-2:2002

The specimens have been conditioned in atmosphere to 20±2°C and 65±4%RH in compliance with norm UNI EN ISO 139; Assessment with photographic standard and/or following scheme: 1 - Dense surface fuzzing and/or severe pilling. Pills of varying size and density covering the whole of the specimen surface; 2 - Distinct surface fuzzing and/or distinct pilling. Pills of varying size and density covering a large proportion of the specimen surface; 3 - Moderate surface fuzzing and/or moderate pilling. Pills of varying size and density partially covering the specimen surface; 4 - Slight surface fuzzing and/or partially formed pills; 5 - No changes.

Sample type: orthogonal fabric - Use furniture

Applied load: 415±2g

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• **3015001 Colour fastness - Artificial light**

UNI EN ISO 105 B02:2014

Apparatus: Xenotester; Test conditions: Normal; Evaluated for comparison with Grey Scale for colour change (ISO 105 A02) and Blue Scale according with 105 ISO B02 with values from 1 to 8.
Method: 3

• **3008011 Colour fastness - Crocking dry and wet A**

UNI EN ISO 105 X12:2016

Evaluation with grey scale for colour staining according with ISO 150 A03; Percentage of absorption of the test cloth: 95-100%; Strength burden of rubbing (circular ankle): 9N; The specimens have been acclimatized in atmosphere to $20 \pm 2^\circ\text{C}$ and $65 \pm 4\% \text{RH}$ in compliance with norm UNI EN ISO 139.

GENERAL NOTES

Unrepeatable tests to exhaustion test material.

Quanto dichiarato in descrizione del campione è sotto la piena responsabilità del committente e non del laboratorio/The sample description content is under the full responsibility of the customer and not of the laboratory.

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Tests	M.U.	Results	Method
6005002 Reaction to fire of upholstered furniture by the action of a small flame			UNI 9175:2010 + UNI 9176:2010
Preliminary test on filling material - 20 s - Result		POSITIVE	
Preliminary test on filling material - 20 s - Result 2		POSITIVE	
Test assembly 1 - 20 s - Time post-combustion (combustion flame)	s	0	
Test assembly 1 - 20 s - Time of post-glow	s	10	
Test assembly 1 - 20 s - Result		POSITIVE	
Test assembly 2 - 20 s - Time post-combustion (combustion flame)	s	0	
Test assembly 2 - 20 s - Time of post-glow	s	14	
Test assembly 2 - 20 s - Result		POSITIVE	
Test assembly 1 - 80 s - Time post-combustion (combustion flame)	s	0	
Test assembly 1 - 80 s - Time of post-glow	s	16	
Test assembly 1 - 80 s - Result		POSITIVE	
Test assembly 2 - 80 s - Time post-combustion (combustion flame)	s	0	
Test assembly 2 - 80 s - Time of post-glow	s	18	
Test assembly 2 - 80 s - Result		POSITIVE	
Test assembly 1 - 140 s - Time post-combustion (combustion flame)	s	0	
Test assembly 1 - 140 s - Time of post-glow	s	23	
Test assembly 1 - 140 s - Result		POSITIVE	
Test assembly 2 - 140 s - Time post-combustion (combustion flame)	s	0	
Test assembly 2 - 140 s - Time of post-glow	s	20	
Test assembly 2 - 140 s - Result		POSITIVE	
Classification achieved		1IM	
2028011 Abrasion resistance			UNI EN ISO 12947-1:2000 + UNI EN ISO 12947-2:2017
Kind of item		woven fabric	
Observed End-Point		breaking of two elements (warps and/or wefts)	
Applied load	kPa	12	
Pretreatment		-	
Number of specimens		3	
Result prior to the End Point - Specimen 1	Rubs	100000	

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Tests	M.U.	Results	Method
Result prior to the End Point - Specimen 2	Rubs	100000	
Result prior to the End Point - Specimen 3	Rubs	100000	
Significant result	Rubs	100000	
2032052 Determination of fabric propensity to surface fuzzing and to pilling - Martindale method C			UNI EN ISO 12945-2:2002
Characteristics assessed		FUZZING	
Number of specimens		3	
Pretreatment		NESSUNO	
Abrading fabric		LANA STANDARD	
Assessment at 500 rubs	Grade	5	
Assessment at 1.000 rubs	Grade	5	
Assessment at 2.000 rubs	Grade	5	
Assessment at 5.000 rubs	Grade	4-5	
3015001 Colour fastness - Artificial light			UNI EN ISO 105 B02:2014
Colour change	Grade	5-6	
3008011 Colour fastness - Crocking dry and wet A			UNI EN ISO 105 X12:2016
Warp - Dry	Grade	4-5	
Warp - Wet	Grade	4-5	
Weft - Dry	Grade	4-5	
Weft - Wet	Grade	4-5	

----- **END OF REPORT** -----

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