



2019AN1230

TEST REPORT

DATE OF RECEPTION 18/04/2019

DATE TESTS

Starting: 23/04/2019 Ending: 27/06/2019

APPLICANT

GABRIEL A/S HULMAGERVEJ 55 DK-9000 Ålborg

Att. BENTE ELLINGSOE

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES

Fabric Ref: Step Melange/ Dark Grey 244260090

TESTS CARRIED OUT

- COLOUR FASTNESS TO ARTIFICIAL LIGHT /
- COLOUR FASTNESS TO RUBBING.
- DETERMINATION OF BREAKING STRENGTH AND ELONGATION.
- DETERMINATION OF THE SLIPPAGE RESISTANCE OF YARNS AT A SEAM IN WOVEN FABRICS: FIXED LOAD METHOD.
- MEANING OF COLOUR FASTNESS APPRAISAL EVALUATED WITH GREY SCALE.

Tests marked with * are not included within the scope of the ENAC accreditation

COLOUR FASTNESS TO ARTIFICIAL LIGHT

Standard

EN ISO 105-B02:2014. Method 2

Apparatus

Xenotest 440 02423E06

Exposure conditions

Normal

Evaluation conditions

Light camera Gretagmacbeth (02021N06)

Reference	Light fastness
Fabric Ref: Step Melange/ Dark Grey 244260090	8

REMARK

The fastness grade indicated comes up to:

- Depth change: More clear - Hue change: No notes - Brightness change: No notes

MEANING OF COLOUR VALUES FASTNESS TO ARTIFICIAL LIGHT

VALUE	MEANING
8	EXCELLENT
7	VERY GOOD
6	GOOD
5	MODERATE
4	FAIR
3	POOR BEHAVIOUR
2	POOR BEHAVIOUR
1	VERY POOR

COLOUR FASTNESS TO RUBBING

Standard

ISO 105-X12:2016

Apparatus

Crockmeter

Starting test date

24/04/2019

Ending test date

08/05/2019

Conditioning time

> 4 H

Atmosphere for conditioning and testing

Temperature

(20±2) °C

Relative Humidity

(65±2) %Hr

Pin

Cylindrical

Applied force

 $(9 \pm 0,2) N$

% of water absorption for rubbing in humid

95-100 %

REFERENCE	DIRECTION	DRY Staining	WET STAINING
Fabric Ref: Step Melange/ Dark Grey 244260090	Warp Weft	4-5	4-5
		4-5	4-5

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DETERMINATION OF BREAKING STRENGTH AND ELONGATION

Standard

EN ISO 13934-1:2013

Apparatus

INSTRON Dynamometer

Conditioning date

23/04/2019 - 25/04/2019

Test date

25/04/2019

Gauge length

200 mm

Rate of extension

100 mm/min

Pretension

Warp 5 N Weft 5 N

Atmosphere for conditioning and testing

Temperature (20±2) °C Relative humidity (65±4) %

 N^{o} of specimens

Tested 5 for each direction **Rejected** 0

Reference	FABRIC REF: STEP MELANGE/ DARK GREY 244260090				
Direction	Average load (N)	C.V. (%)	Elongation to the maximum load (%)	Elongation at 150 N Load (%)	C.V. (%)
Warp	1900	2.0	51.0	5.38	3.0
Weft	1800	1.0	47.5	4.36	1.2

DETERMINATION OF THE SLIPPAGE RESISTANCE OF YARNS AT A SEAM IN WOVEN FABRICS: FIXED LOAD METHOD

Standard

EN ISO 13936-2:2004

Apparatus

INSTRON Dynamometer

Atmosphere for conditioning and testing

Temperature (20 ± 2) °C Relative Humidity (65 ± 4) %

Maximum force

180 N

Woven fabrics

Upholstery fabrics

Reference	Stitching direction	Maximum opening measured after reduction of force to 5.0 N (average values)
FABRIC REF: STEP MELANGE/ DARK	Warp	3.80 mm
GREY 244260090	Weft	2.90 mm

REQUISITE ACCORDING TO STANDARD EN 14465:2003+A1:2006 FOR UPHOSLSTERY FABRICS

Test	Unit	Level of Behavior	
SEAM	mm.	A B C	
		≤4 ≤6 ≤8	

LEVEL A

MEANING OF COLOUR FASTNESS APPRAISAL EVALUATED WITH GREY SCALE

VALUE	MEANING
5	VERY GOOD-EXCELLENT
4	GOOD
3	FAIR-MODERATE
2	POOR BEHAVIOUR
1	VERY POOR

III

Isabel Soriano Chief of Innovation Area

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