



TEST REPORT

Client: Gabriel
 Hjulmagervej 55
 Postbox 59
 DK-9100 Aalborg, Denmark

Entry No: 93328

Date received: 13/12/2017

Client's Description: Sample of fabric: Flex 60011 Grey

Test Required: Abrasion and Pilling in accordance with BS EN 14465. Colour Fastness to Light, Colour Fastness to Rubbing & Colour Fastness to Rubbing with Organic Solvents

Conditioning: In accordance with BS EN ISO 139: 2005 for a minimum of 24 hours at 65+/-4%, Relative Humidity, 20+/-2°C

Date Tests Completed: 22/01/2018

Abrasion Resistance: BS EN ISO 12947-2: 1998 / AC 2008 according to BS EN 14465: 2003

The tests were carried out using a pressure of 12 +/- 0.3 kPa
 The criterion for judging end point was one thread broken / hole formation

Specimen 1	140,000 rubs
Specimen 2	150,000 rubs
Specimen 3	160,000 rubs
Specimen 4	150,000 rubs
Overall Result	140,000 rubs

Change in colour after 3,000 rubs: **4-5**

Observation Technique: 10 fold magnification
 Type of Fabric: 2-Layered Knitted

Pilling: BS EN ISO 12945-2: 2000 Load 415g

	<u>Rating</u>
After 2,000 rubs	5
After 5,000 rubs	5

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



Vivienne Brockbank
 Technician
 22 January 2018

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
 - ❖ Tests marked ^N in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
 - ❖ Tests marked ^F in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
 - ❖ Tests marked ^S in this certificate have been subcontracted to another ISO17025 Accredited Laboratory.
 - ❖ 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



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Colour Fastness to Light: BS EN ISO 105-B02: 2014 Method 2

A specimen was exposed together with Standard References numbers 1-8. By comparison with the standard references the grading was found to be:

BWS Rating
7-8

Colour Fastness to Rubbing: BS EN ISO 105-X12: 2016^F

		<u>Dry</u>	<u>Wet</u>
	Warp Way	5	5
	Weft Way	5	5
<u>Change in Colour</u>		<u>Dry</u>	<u>Wet</u>
	Warp Way	5	5
	Weft Way	5	5

Note: Change in colour is not a requirement of the method but was carried out at the request of the client.

Colour Fastness to Rubbing with Organic Solvents: BS EN ISO 105-D02: 2016^F

		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
Staining:	Length Way	5	5
	Width Way	5	5
		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
Change in colour:	Length Way	5	5
	Width Way	5	5

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