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TEST REPORT

Client: Gabriel

> Hjulmagervej 55 Postbox 59 DK-9100 Aalborg

Denmark

98179 **Entry No:**

08/05/2018 Date received:

Client's Description: Sample of fabric: Tonal, Colour: 64211

Test Required: Abrasion, Pilling and Seam Slippage in accordance with BS EN 14465. Colour

Fastness to Rubbing and Colour Fastness to Light

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: 11/06/2018

Abrasion Resistance: BS EN ISO 12947-2: 2016F

The tests were carried out using a pressure of 12 +/- 0.3 kPa The criterion for judging end point was three threads broken

> Specimen 1 100,000 rubs Specimen 2 100,000 rubs Specimen 3 110,000 rubs Specimen 4 100,000 rubs **Overall Result** 100,000 rubs

Change in colour after 6,000 rubs:

Observation Technique: 10 fold magnification

Type of Fabric: Flat Woven

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

Vivienne Brockbank Technician

11 June 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.







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

After 2,000 rubs 5
After 5,000 rubs 4-5

Seam Slippage: BS EN ISO 13936-2: 2004

Warp Way Seam
Weft Way Seam

Mean Seam opening

4 mm

4 mm

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: 2016F

<u>Staining</u>		Dry	<u>Wet</u>
-	Warp Way	5	5
	Weft Way	5	5
Change in Colour	•	Dry	Wet
	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.

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