



TEST REPORT

Client: Gabriel
Hjulgagervej 55
Postbox 59
DK-9100 Aalborg
Denmark

Entry No: 112960

Date received: 13/09/2019

Client's Description: Fabric Sample MORPH Col.2104

Test Required: Abrasion in accordance with BS EN 14465 and BS 2543: 2004 Colour Fastness to Rubbing.

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: 27/09/2019

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

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

The Test was terminated after 200,000 rubs without an end point having been reached.

Change in colour after 6,000 rubs: **5**

Observation Technique: 10 fold magnification
Type of Fabric: Flat Woven

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

Claire Saville
Technologist
27th September 2019

- ❖ 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 Rubbing: BS EN ISO 105–X12: 2016^F

	<u>Staining</u>		<u>Change in colour</u>	
	<u>Dry</u>	<u>Wet</u>	<u>Dry</u>	<u>Wet</u>
Warp Way	4-5	4-5	5	5
Weft Way	4-5	4-5	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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