



## TEST REPORT

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

**Entry No:** 113834

**Date received:** 26/11/2019

**Client's Description:** Fabric Sample Connect 60146

**Test Required:** Abrasion, Pilling in accordance with BS EN 14465 and BS 2543: 2004  
Colourfastness 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:** 10/12/2019

**Abrasion Resistance:** BS EN ISO 12947-2: 2016<sup>F</sup>

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	120,000 rubs
Specimen 2	90,000 rubs
Specimen 3	130,000 rubs
Specimen 4	110,000 rubs
<b>Overall Result</b>	<b>90,000 rubs</b>

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*

  
Karen Lunn  
Technologist  
20 December 2019

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
  - ❖ Tests marked <sup>N</sup> in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
  - ❖ Tests marked <sup>F</sup> in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
  - ❖ Tests marked <sup>S</sup> 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.





**Client:** Gabriel

**Entry No:** 113834

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

	<u>Rating</u>
After 2,000 rubs	<b>4-5</b>
After 5,000 rubs	<b>4-5</b>

**Colour Fastness to Rubbing:** BS EN ISO 105–X12: 2016<sup>F</sup>

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

**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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