



## TEST REPORT

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

**Entry No:** 80072-04

**Date received:** 14/10/2016

**Client's Description:** Sample of fabric new design: 2475 Bond, 100% PET

**Test Required:** Abrasion, Pilling, Tensile Strength, Tear Resistance and Seam Slippage in accordance with BS EN 14465. Colour Fastness to Rubbing, Colour Fastness to Rubbing with Organic Solvents, Colour Fastness to Washing, Dimensional Stability to Washing and Stretch & Recovery<sup>S</sup>.

**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:** 03/11/2016

**Abrasion Resistance:** BS EN ISO 12947-2: 1998

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	120,000 rubs
Specimen 3	100,000 rubs
Specimen 4	110,000 rubs
<b>Overall Result</b>	<b>100,000 rubs</b>

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

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

-----End of Page-----

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

Vivienne Brockbank  
Technician  
Date of original 06 November 2016  
Date of amendment 14 November 2016

- ❖ 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.



1104



**Client:** Gabriel  
**Entry No:** 80072-04

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

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

**Tensile Strength:** BS EN ISO 13934-1: 2013

Length Way	<b>2600 N</b>
Width Way	<b>2500 N</b>

**Tear Resistance:** BS EN ISO 13937-3: 2000

Torn across Length	<b>206 N</b>
Torn across Width	<b>186 N</b>

**Seam Slippage:** BS EN ISO 13936-2: 2004

	<u>Mean Seam opening</u>
Warp Way Seam	<b>3 mm</b>
Weft Way Seam	<b>3 mm</b>

**Colour Fastness to Rubbing:** BS EN ISO 105-X12: 2002

		<u>Dry</u>	<u>Wet</u>
Staining:	Length Way	<b>4-5</b>	<b>5</b>
	Width Way	<b>4-5</b>	<b>5</b>
Change in colour:	Length Way	<b>5</b>	<b>5</b>
	Width Way	<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.

**Colour Fastness to Rubbing with Organic Solvents:** BS EN ISO 105-D02: 2002

		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
Staining:	Length Way	<b>4-5</b>	<b>5</b>
	Width Way	<b>4-5</b>	<b>5</b>
Change in colour:	Length Way	<b>5</b>	<b>5</b>
	Width Way	<b>5</b>	<b>5</b>

-----End of Page-----



**Client:** Gabriel  
**Entry No:** 80072-04

**Colour Fastness to Washing:** BS EN ISO 105–C06: 2010 Procedure C2S at 60°C using 25 steel balls

Staining on:	
Acetate	5
Cotton	5
Nylon 6.6	5
Polyester	4-5
Acrylic	5
Wool	4-5
Change in Colour	5

**Dimensional Stability:** BS EN ISO 5077: 2008

**Washing Procedure:** BS EN ISO 6330: 2012 Procedure 6M (60°C), Drying Procedure C Flat dry

Length	-1.5 %
Width	-3.0 %

**Note:** a negative result indicates shrinkage.

**Stretch & Recovery:** BS EN ISO 14704-1: 2005 using a load of 27.5N<sup>s</sup>

Time @ full extension	60 Secs	
Length	1 Min	30 Mins
Average % Recovery	100%	100%
Average % Residual Extension	0%	0%
Average % Stretch	7.0%	
Width	1 Min	30 Mins
Average % Recovery	100%	100%
Average % Residual Extension	0%	0%
Average % Stretch	4.8%	

-----End of Document-----