



## TEST REPORT

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

**Entry No:** 103683-03A

**Date received:** 23/11/2018

**Client's Description:** Fabric sample Repetto 3401 Dark Yellow

**Test Required:** Pilling, and Seam Slippage in accordance with BS EN 14465. Colour Fastness to Rubbing (organic solvent), Colour Fastness to Perspiration, Colour Fastness to Water spotting<sup>S</sup> and Dimensional Stability.

**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:** 15/03/2019

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

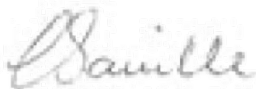
	<u>Rating</u>
After 2,000 rubs	5
After 5,000 rubs	5

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

	<u>Mean Seam opening</u>
Warp Way Seam	5 mm
Weft Way Seam	4 mm

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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  
 18<sup>th</sup> March 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.



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**Client:** Gabriel  
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**Colour Fastness to Perspiration:** BS EN ISO 105–E04: 2013

Staining on:	Acid	Alkaline
Acetate	5	5
Cotton	5	5
Nylon 6.6	5	5
Polyester	5	5
Acrylic	5	5
Wool	5	5
Change in Colour	5	5

**Colour Fastness to Rubbing with Organic Solvents:** BS EN ISO 105–D02: 2016<sup>F</sup>

Staining:		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
		Length Way	5
	Width Way	5	5
Change in colour:		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
		Length Way	5
	Width 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 Water Spotting<sup>S</sup>** BS EN ISO 105 E16 : 2007

	Result	Requirements
Inner circle	5	
Outer periphery	4-5	

Please note The water was absorbed after 30 minutes.

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

**Washing Procedure:** BS EN ISO 6330: 2012 Procedure 4M (40°C), Drying Procedure C Flat dry  
Sample washed and dried 5 times.

Length	-0.5 %
Width	-1 %

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

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

**Washing Procedure:** BS EN ISO 6330: 2012 Procedure 6M (60°C), Drying Procedure C Flat dry  
Sample washed and dried 4 times.

Length	-2 %
Width	-1.5 %

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

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Amended Report 103683-03A. This Report supersedes Test report 103683-03. Some of the results of the testing have been removed at the request of the client.