



TEST REPORT

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

Entry No: 109143 A

Date received: 02/04/2019

Client's Description: Fabric Sample Passion Col 6101 Grey

Test Required: Pilling, Tensile Strength, Tear Resistance and Seam Slippage in accordance with BS EN 14465. Colour Fastness to Dry Cleaning, Perspiration, Water, Water Spotting^S, Rubbing, Rubbing with Organic Solvent, Rubbing with Foam Detergent and Stretch and Recovery^S.

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: 07/05/2019

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

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

Tensile Strength: BS EN ISO 13934-1: 1999

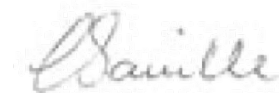
Warp Way	770 N
Weft Way	820 N

Tear Resistance: BS EN ISO 13937-3: 2000

Torn across Warp	89 N
Torn across Weft	123 N

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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
7th May 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



Client: Gabriel

Entry No: 109143 A

Seam Slippage: BS EN ISO 13936-2: 2004

	<u>Mean Seam opening</u>
Warp Way Seam	5.0 mm
Weft Way Seam	5.0 mm

Colour Fastness to Dry Cleaning: BS EN ISO 105-D01: 2010

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

Colour Fastness to Perspiration: BS EN ISO 105-E04: 2013

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

Colour Fastness to Water: BS EN ISO 105-E01: 2013

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

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	5	5	5	5
Weft Way	5	5	5	5

Note: Change in colour is not a requirement of the method but was carried out at the request of the client.

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



Client: Gabriel
Entry No: 109143 A

Colour Fastness to Rubbing with Organic Solvents: BS EN ISO 105–D02: 2016^F

		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
Staining:	Length Way	4-5	5
	Width Way	4-5	5
		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
Change in colour:	Length Way	5	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 Rubbing with Foam Detergent: BS EN ISO 105–X12: 2016^F

		<u>Detergent</u>
Staining:	Warp Way	4-5
	Weft Way	4-5
Change in colour:	Warp Way	5
	Weft Way	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^S BS EN ISO 105 E16 : 2007

	Result	Requirements
Inner circle	5	
Outer periphery	4-5	

Please note The water was absorbed after 30 minutes.

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Stretch & Recovery^S: BS EN ISO 14704-1: 2005 Method A Load 27.5N

		1 Min & 30 Mins
Time @ full extension		
Length	1 Min	30 Mins
Average % Recovery	100%	100%
Average % Residual Extension	0%	0%
Average % Stretch		4.20%
Width	1 Min	30 Mins
Average % Recovery	100%	100%
Average % Residual Extension	0%	0%
Average % Stretch		4.77%

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Amended Report 109143A. This Report supersedes Test report 109143. Some of the results of the testing have been removed at the request of the client.