



## TEST REPORT

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

**Entry No:** 106357

**Date received:** 06/02/2019

**Client's Description:** Fabric Sample Savoy 60196

**Test Required:** Tensile Strength, Tear Resistance, Colourfastness to Perspiration, Colourfastness to Rubbing, Colourfastness to Water, Colourfastness to Washing, Colourfastness to Water Spotting<sup>S</sup>, Dimensional stability and Stretch and 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:** 27/02/2019

**Tensile Strength:** BS EN ISO 13934-1: 1999

Warp Way	<b>1400 N</b>
Weft Way	<b>1200 N</b>

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

Torn across Warp	<b>66 N</b>
Torn across Weft	<b>63 N</b>

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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  
28<sup>th</sup> February 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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**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 Washing:** BS EN ISO 105–C06: 2010 A2S

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

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

	<u>Detergent</u>
Staining:	
Warp Way	5
Weft Way	4-5
Change in colour:	
Warp Way	5
Weft Way	4-5

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

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

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

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

**Washing Procedure:** BS EN ISO 6330: 2012 Procedure 4M (40°C), Drying Procedure C Flat dry

Length	<b>-2.0</b> %
Width	<b>-1.5</b> %

**Colour Fastness to Water Spotting BS EN ISO 105 E16 : 2007**

	Result	Requirements
Inner circle	<b>5</b>	
Outer periphery	<b>5</b>	
Cross Staining	<b>5</b>	
Please note	The water was absorbed after 30 minutes.	

**Stretch & Recovery:** BS EN ISO 14704-1: 2005 Method A Load 27.5Ns

Time @ full extension		1 Min & 30 Mins	
Length	1 Min		30 Mins
Average % Recovery	<b>100%</b>		<b>100%</b>
Average % Residual	<b>0%</b>		<b>0%</b>
Extension			
Average % Stretch		<b>1.4%</b>	
Width	1 Min		30 Mins
Average % Recovery	<b>100%</b>		<b>100%</b>
Average % Residual	<b>0%</b>		<b>0%</b>
Extension			
Average % Stretch		<b>2.6%</b>	

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