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**TEST REPORT** 

Client:	Gabriel Hjulmagervej 55 Postbox 59 DK-9100 Aalborg Denmark
Entry No:	101062-04
Date received:	24/07/2018
Client's Description:	Sample of Fabric: Art: 2498 Select, Colour: 60131, Light Blue Grey
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 Light, Colour Fastness to Dry Cleaning, Colour Fastness to Perspiration, Colour Fastness to Water, Colour Fastness to Water Spotting <sup>s</sup> 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+/-2ºC
Date Tests Completed:	24/08/2018

#### Abrasion Resistance: BS EN ISO 12947-2: 2016F

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	240,000 rubs
Specimen 2	250,000 rubs
Specimen 3	250,000 rubs
Specimen 4	240,000 rubs
<b>Overall Result</b>	240,000 rubs
Change in colour after 6,000 rubs:	4
Observation Technique:	■ 10 fold magnification 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

Vivienne Brockbank Technician 26 August 2018

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>S</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. ÷

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- Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. ٠
- 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.







Gabriel

101062-04

**Client:** 

Entry No:

Pilling: BS EN ISO 12945-2: 2000	Load 415g				
	er 2,000 rubs er 5,000 rubs	Rating 4 4	L		
Tensile Strength: BS EN ISO 1393	34-1: 2013				
	′arp Way ′eft Way	880 N 780 N			
Tear Resistance: BS EN ISO 1393	7-3: 2000				
	cross Warp cross Weft	72 N 62 N			
Seam Slippage: BS EN ISO 13936	-2: 2004				
	p Way Seam t Way Seam	Mean Seam o 3 mr 3 mr	n		
Colour Fastness to Rubbing: BS	EN ISO 105–X12	: 2016 <sup>F</sup>			
Staining	Warp Way Weft Way	<u>Dry</u> 5 5	<u>Wet</u> 5 5		
Change in Colour	Warp Way Weft Way	<u>Dry</u> 5 5	<u>Wet</u> 5 5		
Note: Change in colour is not a requ				at the request of th	e client.

Colour Fastness to Rubbing with Organic Solvents: BS EN ISO 105-D02: 2016F
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Staining:	Length Way Width Way	Tetrachloroethylene 5 5	<u>White Spirit</u> 5 5
Change in colour:	Length Way Width Way	Tetrachloroethylene 5 5	<u>White Spirit</u> 5 5

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# Colour Fastness to Light: BS EN ISO 105-B02: 2014 Method 2

A specimen was exposed together with Standard References numbers 1-8. By comparison with the standard references the grading was found to be:

BWS Rating 5-6

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

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

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

Staining on:	Acid	Alkali
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 Water: BS EN ISO 105-E01: 2013

Acetate	5
Cotton	5
Nylon 6.6	5
Polyester	5
Acrylic	5
Wool	5
in Colour	4-5
	Cotton Nylon 6.6 Polyester Acrylic Wool

## Colour Fastness to Water Spotting: BS EN ISO 105-E16:2007s

	<u>Grade</u>
Inner circle of tested area:	5
Outer periphery of tested area:	4-5
Cross staining	n/a
Change in appearance	5

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

Time @ full extension	1 Min & 30 Mins	
Length	<u>1 Min</u>	<u>30 Mins</u>
Average % Recovery	100%	100%
Average % Residual Extension	0%	0%
Average % Stretch	7.24%	
Width	<u>1 Min</u>	<u>30 Mins</u>
Average % Recovery	100%	100%
Average % Residual Extension	0%	0%
Average % Stretch	5.9	3%

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