

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

**Entry No:** 67029

**Date received:** 26/09/2014

**Client's Description:** Sample of fabric: Art. Web Colour 5101 Light Beige

### TEST REPORT

**Tests Required:** Abrasion, Pilling, Tensile Strength and Seam Slippage in accordance with BS EN 14465. Stretch and Recovery. Colour Fastness to Rubbing, Rubbing with Organic Solvent, Rubbing with Foam Detergent, Water, Perspiration, Water Spotting and Wash Stability

**Conditioning:** In accordance with BS EN ISO 139 : 2005 for a minimum of 24 hours at 65 +/- 4% Relative Humidity, 20 +/- 2°C where required

**Date of Test:** 30.9.14 to 15.10.14

**Abrasion:** 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	110,000 rubs
Specimen 3	100,000 rubs
Specimen 4	110,000 rubs
Overall Result	100,000 rubs

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

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

<u>Warp Way</u>	<u>Weft Way</u>
1700N	3300N

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



*V Brockbank*

V Brockbank  
Senior Technician  
31<sup>st</sup> October 2014

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days
- ❖ Test marked (\*) in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
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**Pilling:** BS EN ISO 12945-2 : 2000  
Load 415 g

After 2,000 rubs:- 5  
After 5,000 rubs:- 5

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

	<u>Mean Seam Opening (mm)</u>
Warp Way Seam	5
Weft Way Seam	4

**Rubbing Fastness:** BS EN ISO 105 – X12 : 2002

		<u>Dry</u>	<u>Wet</u>
Staining:-	Warp	5	5
	Weft	5	5
Change in colour:-	Warp	5	5
	Weft	5	5

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

**Rubbing with Foam Detergent:** BS EN ISO 105 – X12 : 2002

	<u>Warp</u>	<u>Weft</u>
Staining	5	5
Change in colour	5	5

**Rubbing with Organic Solvent:** BS EN ISO 105 – DO2 : 1996

		<u>Using Tetrachloroethylene</u>	<u>Using White Spirit</u>
Staining	Warp	5	5
	Weft	5	5
Change in colour	Warp	5	5
	Weft	5	5

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**Fastness to Perspiration:** BS EN ISO 105 – EO4 : 2013

	<u>Acid</u>	<u>Alkali</u>
Staining on:-		
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

**Water Fastness:** BS EN ISO 105 – EO1 : 2013

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

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

Grade 4-5

Subcontracted test made by a UKAS Accredited Laboratory

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**Stretch & Recovery:** BS EN ISO 14704-1 : 2005

100N Load	Time @ Full Extension	N/A
	Time @ Residual Extension	1 & 30 minutes
		<b>Length</b>
	Average % Stretch	4.3
	Average % Residual Extension	After 1 min 0.4%/After 30 mins 0.4%
	Average % Recovery	After 1 min. 99.6%/After 30 mins. 99.6%
		<b>Width</b>
	Average % Stretch	4.4
	Average % Residual Extension	After 1 min 0.4%/After 30 mins 0.0%
	Average % Recovery	After 1 min. 99.6%/After 30 mins. 100.0%

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

**Wash Procedure:** BS EN ISO 6330 : 2012 Procedure 6M at 60°C Drying Procedure Flat Dry

Warp -1.0%  
Weft -0.5%

**Note:** minus indicates shrinkage

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