

West Yorkshire Materials Testing Service PO Box 5, Nepshaw lane South, Morley,

Leeds LS27 0QP

Tel: 0113 253 0241 Fax: 0113 252 7029 Materials Testing Manager: D Brockbank

Client: Gabriel

> Hjulmagervej 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

Warp Way Weft Way 1700N 3300N

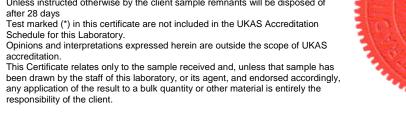
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This is hereby certified to be a correct return of the tests made of the items referred to herein.

- Unless instructed otherwise by the client sample remnants will be disposed of
- Schedule for this Laboratory.
- any application of the result to a bulk quantity or other material is entirely the









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Pilling: BS EN ISO 12945-2: 2000

Load 415 g

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

Seam Slippage: BS EN ISO 13936-2: 2004

Mean Seam Opening (mm)

Warp Way Seam 5 Weft Way Seam

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

Weft Warp Staining 5 5 5 5 Change in colour

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

	Using Tetrachloroethylene	Using White Spirit	
Staining			
Warp	5	5	
Weft	5	5	
Change in colour			
Warp Weft	5 5	5 5	

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- Schedule for this Laboratory.

  Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
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Fastness to Perspiration: BS EN ISO 105 - EO4: 2013

		<u>Acid</u>	<u>Alkali</u>
Staining on:-			
Grammig orm	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 Cotton 5 Nylon 6.6 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

	Time @ Full Extension	N/A
100N Load	Time @ Residual Extension	1 & 30 minutes
		Length
	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%
		Width
	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%

Subcontracted test made by a UKAS Accredited Laboratory

Wash Stability: BS EN ISO 5077: 2008

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

-1.0% Warp Weft -0.5%

Note: minus indicates shrinkage

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