



TEST REPORT
Amended

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

Entry No: 113827A

Date received: 26/11/2019

Client's Description: Fabric Sample Connect 60147

Test Required: Tensile Strength, Tear Resistance, Seam Slippage, water spotting, Stretch and recovery^s, Colour fastness to Dry cleaning, colour fastness to water, colour fastness to rubbing and colour fastness to perspiration and dimensional change to cleaning.

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: 19/12/2019

Tensile Strength: BS EN ISO 13934-1: 1999

Warp Way	1100 N
Weft Way	1200 N

Tear Resistance: BS EN ISO 13937-3: 2000

Torn across Warp	67 N
Torn across Weft	66 N

Seam Slippage: BS EN ISO 13936-2: 2004

	<u>Mean Seam opening</u>
Warp Way Seam	3 mm
Weft Way Seam	2 mm

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

Karen Lunn
Technologist
02 January 2020

- ❖ 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.



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

Grade
Inner circle of tested area: 5
Outer periphery of tested area: 4-5
Cross staining 5
Change in appearance 5

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	100	100
Average % Residual	0.0	0.0
Extension		
Average % Stretch	6.02%	
Width	1 Min	30 Mins
Average % Recovery	100	100
Average % Residual	0.0	0.0
Extension		
Average % Stretch	4.091%	

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

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



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

		<u>Tetrachloroethylene</u>	<u>White Spirit</u>
Staining:	Length Way	5	5
	Width Way	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	5
	Weft Way	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.

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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 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		5

Dimensional Stability after dry cleaning BS EN ISO 3175-1/2:2010

Length	-0.5	%
Width	-0.5	%

Amended report 113827A. This Report supersedes Test report 113827. Some of the results of the testing have been removed at the request of the customer.

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