

Test Report	No. 28514117	Date: 3 rd November 2012	Page 1 of 7
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AMENDMENT TEST REPORT

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description	:	Future Loop
Customer	:	Gabriel; Hjulmagervej 55, DK, 9000 Aalborg
Submitted by	:	Bente Ellingsoe
Style Number	:	Future Loop col. 63142
Colour	:	-
Product type	:	Upholstery fabric
Fiber content	:	-

Test Performed * : Selected test(s) as requested by applicant *
 Sample Receiving Date : 4th October 2023
 Testing Period : 4th October 2023 – 31st October 2023
 Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

Test Property	Results	Test Property	Results
Colour Fastness to Washing	-	Tear Strength	-
Colour fastness to Dry Cleaning	-	Tensile Strength	-
Colour Fastness to Perspiration	-	Elasticity of Fabrics	-
Colour Fastness to Water Spotting *	-	Pilling	-
Colour Fastness to Rubbing Dry/Wet	-	Seam Slippage	-
Colour Fastness to Rubbing (Foam Detergent)	-	Snagging	-
Colour Fastness to Rubbing (Organic Solvent) *	-		
Colour Fastness to Light **	Results to be forwarded on separate test report		

Test Report	No. 28514117	Date: 3 rd November 2023	Page 2 of 7
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Amendment due to addition of change in shade of the sample after the colour fastness to rubbing tests and the omission of abrasion resistance at client request

* Sent to UK accredited UKAS Testing Centre

** Sent to in group Turkey accredited Testing Centre

Signed for and on behalf of
TÜV Rheinland UK LTD

Christopher Clarke

Digitally signed by Christopher
Clarke

Date: 2023.11.03 09:12:41 Z

Chris Clarke
Laboratory Supervisor



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Test result is drawn according to the kind and extent of tests performed.

Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted samples only.



Test Report	No. 28514117	Date: 3 rd November 2023	Page 3 of 7
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Results:

Colour Fastness To Washing (BS EN ISO 105-C06: 2010) Washing Condition: A2S, 40°C With ECE(B) + Sodium Perborate, 10 Steel Balls.	
Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
Acetate	4
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good	

Colour Fastness To Dry cleaning (BS EN ISO 105-D01: 2010)	
Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good	

Colour Fastness To Perspiration (BS EN ISO 105-E04: 2013)		
Sample	Result	
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining	-	-
Colour Staining	Result	Result
Acetate	4-5	4-5
Cotton	4-5	4-5
Polyamide	4-5	4-5
Polyester	4-5	4-5
Acrylic	4-5	4-5
Wool	4-5	4-5

Test Report	No. 28514117	Date: 3 rd November 2023	Page 4 of 7
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Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness To Water (BS EN ISO 105-E01: 2013) test specimen in vertical position	
Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	
	Result
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness To Rubbing (Dry / Wet) Size of rubbing finger: 16mm diameter				
Sample	Result			
	Change in shade of sample after test: 4-5			
	Warp		Weft	
	Dry: 4-5		Dry: 4-5	
	Wet: 4-5	% Soak: 100%	Wet: 4-5	% Soak: 100%

Colour Fastness To Rubbing (Foam Detergent) Size of rubbing finger: 16mm diameter		
Sample	Result	
	Change in shade of sample after test: 4-5	
	Warp	Weft
	4-5	4-5

Colour Fastness To Rubbing – Organic Solvents (BS EN ISO105-D02:2016)		
Sample	Result	
	Change in shade of sample after test: 4-5	
	Length	Width
Change in shade	4-5	4-5
Staining	4-5	4-5
Solvent used: Perchloroethylene		

Test Report	No. 28514117	Date: 3 rd November 2023	Page 5 of 7
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Colour Fastness To Water Spotting (BS EN ISO105-E16:2007)		
Sample	Result	
	Shade Change Centre	4-5
	Shade Change Periphery	4-5

Tear Strength (BS EN ISO 13937-3:2000)	
Direction	Mean Maximum Force
Warp	214.3 N
Weft	178.3 N

Tensile Strength (BS EN ISO 13934-1:2013)	
	Result
Warp	2247.1 N
Weft	3334.9 N

Elasticity of fabrics (BS EN ISO 14704-1) Strip sample					
Sample	Result				
	Elongation at 27.5N (%)	Un-recovered Elongation at 1 mins (%)	Un-recovered Elongation at 30 mins (%)	Recovered Elongation at 1 mins (%)	Recovered Elongation at 30 mins (%)
Warp	5.9 %	0.0 %	0.0 %	100.0 %	100.0 %
Weft	3.1 %	0.0 %	0.0 %	100.0 %	100.0 %

Test Report	No. 28514117	Date: 3 rd November 2023	Page 6 of 7
--------------------	--------------	-------------------------------------	-------------

Pilling Resistance (BS EN ISO 12945-2:2020; Martindale Abrasion & Pilling Tester; Total Load Applied 415g, tested against wool abradent fabric) No cleansing required	
Sample	Average Result
After 2000 Rubs Rating	Fuzzing: 4-5 Pilling: 4-5 Matting: 4-5
After 5000 Rubs Rating	Fuzzing: 4-5 Pilling: 4-5 Matting: 4-5

Seam Slippage (BS EN ISO 13936-2:2004)	
Sample	Result
Warp	1.0 mm
Weft	1.0 mm

Test Report	No. 28514117	Date: 3rd November 2023	Page 7 of 7
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Snagging Resistance (Rotating Chamber Method) (BS 8479:2008) 2000 Revolutions		
Measuring position	Grade	Defect type
Length	4	A, B
Width	3-4	
Total number of snags		>40 <5mm
<p>Remark :</p> <p>Grading</p> <p>5 = No snags or other surface defects 4 = Snags or other surface defects in isolated areas 3 = Snags or other surface defects partially covering the surface 2 = Snags or other surface defects covering a large proportion of the surface 1 = Snags or other surface defects covering the entire surface</p> <p>Classification system for surface defects</p> <p>A = Snagging B = Protrusions C = Indentations D = Shiners, pulled threads or other distortions of the fabric structure, occurring in close proximity to snag loops and/or not associated with any snag loop E = Visible defects due to colour contrasts F = Filamentation G = Any other defects specific to the fabric type and which detract from the original surface appearance X = No visible surface defects</p>		

-End of Test Report-