

Softlines

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

<b>Sample Description</b>	:	Grain / Grain Melange
<b>Customer</b>	:	<b>Gabriel</b>
<b>Colour</b>	:	61247
<b>Product type</b>	:	Upholstery fabric
<b>Fiber content</b>	:	

Test Performed \* : Selected test(s) as requested by applicant \*  
 Sample Receiving Date : 25<sup>th</sup> February 2022  
 Testing Period : 25<sup>th</sup> February 2022 – 10<sup>th</sup> March 2022  
 Test Result(s) : For further details, please refer to the following page(s).  
 This 'a' report superseeds 28512394 as the client has asked for the abrasion result to be removed.

**Conclusion:**

Test Property		Test Property	Results
Colour fastness to Perspiration	-	Elasticity of Fabrics	-
		Tear	-
		Snagging	-
Colour fastness to Water	-	Pilling	-
Colour Fastness to Rubbing (Foam Detergent)	-	Colour fastness to Water Spotting	Sub-con to third party, results to follow on completion
Colour Fastness to Washing	-	Colour Fastness to Rubbing (Organic Solvents)	Sub-con within group, results to follow on completion
Seam Slippage	-		
Tensile	-		

Signed for and on behalf of  
TÜV Rheinland UK LTD



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**Dathan Stone**  
**Senior Laboratory Technician**

*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.*



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**Results:**

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

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

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

<b>Colour Fastness To Dry cleaning</b> (BS EN ISO 105-D01: 2010)	
Sample	Result
Colour Change	5
Self-Staining	5
Colour Staining	Result
Acetate	5
Cotton	5
Polyamide	5
Polyester	5
Acrylic	5
Wool	5

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



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<b>Colour Fastness To Rubbing- Foam Detergent</b> (BS EN ISO105-X12:2016); Size of rubbing finger: 16mm diameter		
<b>Sample</b>	<b>Result</b>	
	<b>Warp</b>	<b>Weft</b>
	Dry: 5	Dry: 5
	Wet: 5 100% Soak	Wet: 5 100% Soak
Atmospheric Conditions: 20.5°C 65.5%		

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

<b>Seam Slippage</b> (BS EN ISO 13936-2:2004)	
<b>Sample</b>	<b>Result</b>
Warp	2.6mm
Weft	3.0mm

<b>Tensile Strength</b> (BS EN ISO 13934-1:2013)	
<b>Sample</b>	<b>Result</b>
Warp	1877.5
Weft	1743.6



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<b>Elasticity of fabrics</b> (BS EN ISO 14704-1) 2005 : Strip Method			
Sample	Result		
	Elongation at 27.5N (%)	Recovered Elongation at 1 Mins (%)	Recovered Elongation at 30 Mins (%)
Warp	4.9	100.00	100.00
Weft	7.1	99.20	100.00

<b>Tearing Strength</b> (BS EN ISO 13937-1:2000; Elmendorf Tear)	
Sample	Result
Warp	>64N
Weft	>64N

<b>Snagging Resistance (Rotating Chamber Method)</b> (BS 8479:2008) 2000 Revolutions		
Measuring position	Grade	Defect type
Length	4-5	B
Width	4-5	
<b>Total number of snags</b>	<5	

Remark :

**Grading**  
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

**Classification system for surface defects**  
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

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**Pilling Resistance**

(BS EN ISO 12945-2:2020; Martindale Abrasion & Pilling Tester; Total Load Applied 415g, tested against wool abradent fabric)

No cleansing required

Deviation: At clients request - only pilling surface characteristics assessed

Sample	Average Result
After 2000 Rubs Rating	5 Pilling
After 5000 Rubs Rating	5 Pilling

-End of Test Report-