

Softlines

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

Sample Description	:	Renewed Loop col. 63131
Customer	:	Gabriel
Address	:	Hjulmagervej 55, DK, 9000 Aalborg
Colour	:	63131 Orange
Product type	:	Upholstery fabric
Fiber content	:	-

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : 16th February 2023

Testing Period : 16th February 2023 –3rd March 2023

Test Result(s) : For further details, please refer to the following page(s).

This 'a' report superseeds 28513318 as the elongation % has been

added from test 13934-1.

Conclusion:

Test Property	Results	Test Property	Results
Abrasion	-	Tensile	-
Pilling	-	Elasticity of Fabrics	-
Colour Fastness to Washing		Snagging	-
Colour fastness to Dry Clean	-	Tear	-
Colour fastness to		Seam Slippage	-
Perspiration	-	Colour Fastness to Rubbing (Foam Detergent)	-
Colour fastness to Water	-	Colour fastness to Rubbing (Organic Solvents)	-
Colour Fastness to Water Spotting	-		

Signed for and on behalf of TÜV Rheinland UK LTD



Dathan Stone Senior Laboratory Technician UKAS TESTING

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

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Results:

Colour Change

At 3000 (rubs)

Abrasion Resistance	
(BS EN ISO 12947-2:2016/AC:2006 according to BS EN 14465	5): Martindale Wear & Abrasion Tester: 12 kPa Pressure)

Result

	Specimen 1	Specimen 2	Specimen 3
End point reached, three thread breakdown	105,000	105,000	105,000
Overall endpoint		105,000	

Remarks: Grey Scale Rating is based on the step scale of 1 to 5, where 1 is bad and 5 is good Observation Technique: 40 fold magnification

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

No cleansing required

110 cloanering required	
	Average Result
After 2000 Rubs Rating	5 Fuzzing 5 Pilling 5 Matting
After 5000 Rubs Rating	5 Fuzzing 5 Pilling 5 Matting

Remarks: Pilling Rating

- 5 No change
- 4 Slight surface fuzzing and/or partially formed pills
- 3 Moderate surface fuzzing and/or moderate pilling. Pills of varying size and density partially covering the specimen
- 2 Distinct fuzzing and/or distinct pilling. Pills of varying size and density covering a large proportion of the specimen surface
- 1 Dense surface and/or severe pilling. Pills of varying size and density covering the whole of the specimen surface



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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	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-s	tep 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	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

Sample	Result		
	Acid	Alkaline	
Colour Change	5	5	
Self-Staining	5	5	
Colour Staining	Result	Result	
Acetate	5	5	
Cotton	5	5	
Polyamide	5	5	
Polyester	5	5	
Acrylic	5	5	
Wool	5	5	



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Colour Fastness To W (BS EN ISO 105-E01: 2	/ater 2013) test specimen in vertic	cal position		
Sample		Result		
Colour Change		5		
Self-Staining		5		
Colour Staining		Result		
Acetate		5		
Cotton		5		
Polyamide		5		
Polyester		5		
Acry	/lic	5		
Wo	ol	5		

Colour Fastness To Rul (BS EN ISO105-X12:201	obing (Foam Deter 6); Size of rubbing fi	gent) nger: 16mm diameter		
			Result	
Sample		Warp		Weft
	Dry: -		Dry: -	
	Wet: 5	% Soak: 100%	Wet: 5	% Soak: 100%

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

Seam Slippage (BS EN ISO 13936-2:2004)		
Sample	Result	
Warp	2.3 mm	
Weft	2.7 mm	

Tear Strength (BS EN ISO 13937-3:2000)			
Direction	Mean Maximum Force		
Warp	85.1 N		
Weft	86.6 N		



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Tensile Strength (BS EN ISO 13934-1:2013)		
	Result	Elongation (%)
Warp	1500.2 N	41.7
Weft	1498.4 N	41.0

Elasticity of fabrics

(BS EN ISO 14704-1) Strip sample

(B5 EN 150 14704-1) 5trip 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	3.1	0.0	0.0	100.00	100.00
Weft	3.8	0.0	0.0	100.00	100.00

Colour Fastness To Water (BS EN ISO105-E16:2007)	Spotting		
	Result		
Sample	Shade change Centre	5	
	Shade change Periphery	5	

	Re	sult
Sample	Length	Width
Change in shade	5	5
Staining	5	5

Snagging Resistance (Rotating Chamber Method)

(BS 8479:2008)



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2000 Revolutions

Measuring position	Grade	Defect type
Length	4-5	A
Width	4-5	
Total number of snags		≤5

Remark:

<u>Grading</u>

- 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

-End of Test Report-