

Gabriel

Softlines

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

Sample Description	:	Lense Col: 60105 Light Grey
Customer	••	Gabriel
Colour		60105 Light Grey
Product type	:	Upholstery fabric
Fiber content	••	-

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

Sample Receiving Date : 16th November 2022

Testing Period : 16th November 2022 – 16th December 2022

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

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 (wet / dry)	-
Colour fastness to Water	-	Colour fastness to Rubbing (Organic Solvents)	-
Colour Fastness to Water Spotting	-	Colour Fastness to Lights	-
Colour Fastness to Rubbing (Foam Detergent)	-		

Signed for and on behalf of TÜV Rheinland UK LTD



Dathan Stone Senior Laboratory Technician



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

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Results:

Abrasion Resistance

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

Resui

	Specimen 1	Specimen 2	Specimen 3
End point reached, three thread breakdown	110,000	110,000	110,000
Overall endpoint	110,000		
Colour Change At 3000 (rubs)	4-5	4-5	4-5

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

Pilling Resistance

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

No cleansing 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	4-5		
Self-Staining	4-5		
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 Dry cleaning (BS EN ISO 105-D01: 2010)		
Sample	Result	
Colour Change	4-5	
Self-Staining	4-5	
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		

Sample	Re	sult
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining	4-5	4-5
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



Warp

Weft

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Softlines Test Report Date: 16th December 2022 No. 28513094 Page 4 of 6 Colour Fastness To Water (BS EN ISO 105-E01: 2013) test specimen in vertical position Result Sample 4-5 Colour Change 4-5 **Self-Staining** Colour Staining Result 4-5 Acetate 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 (BS EN ISO105-X12:2016); Size of rubbing finger: 16mm diameter Result Sample Warp Weft **Dry:** 5 **Dry**: 5 Wet: 5 % Soak: 100% Wet: 5 % Soak: 100% Colour Fastness To Rubbing (Foam Detergent) (BS EN ISO105-X12:2016); Size of rubbing finger: 16mm diameter Result Sample Warp Weft Dry: -Dry: -% Soak: 100% % Soak: 100% Wet: 5 Wet: 5 Seam Slippage (BS EN ISO 13936-2:2004) Sample Result Warp 1.0(mm) Weft 1.4(mm) **Tearing Strength** (BS EN ISO 13937-1:2000; Single Tear) Sample Result

>64(N)

>64(N)



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Tear Strength (BS EN ISO 13937-3:2000)		
Direction	Mean Maximum Force	
Warp	74.2 N	
Weft	94.8 N	

Tensile Strength (BS EN ISO 13934-1:2013)	
	Result
Warp	1253.0 N
Weft	791.8 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	15.24	1.4	0.0	98.6	100.00
Weft	23.06	0.6	0.0	99.4	100.00

Colour Fastness To Water (BS EN ISO105-E16:2007)	Spotting	
	Re	sult
Sample	Shade change Centre	4-5
	Shade change Periphery	4-5



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Colour Fastness To Rubbing – Organic Solvents (BS EN ISO105-D02:2016)					
		Result			
Sample	Le	ength	Width		
Change in shade		5	5		
Staining		5	5		

Snagging	Resistance	(Rotating	Chamber Method)
(BS 8/70.2	OUS)			

(BS 8479:2008)

2000 Revolutions

2000 Novolations			
Measuring position	Grade	Defect type	
Length	5	X	
Width	5		
Total number of	No snags.		

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

Colour Fastness To Light (BS EN ISO105- B02 : Method 2) Apparatus : Xenon-arc lamp	
Result	Exposure 7