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

Sample Description	:	Blend
Customer	:	Gabriel
Colour	:	1101
Product type	:	Upholstery fabric
Fiber content	:	-

Test Performed * : Selected test(s) as requested by applicant *
 Sample Receiving Date : 12th August 2021
 Testing Period : 12th August 2021 – 20th August 2021
 Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

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

Signed for and on behalf of
TÜV Rheinland UK LTD

George Mehmet
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:

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	Fuzzing 5 Pilling 5 Matting 5
After 5000 Rubs Rating	Fuzzing 4-5 Pilling 4-5 Matting 5
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	

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

Elasticity of fabrics (BS EN ISO 14704-1) (Withdrawn) Strip sample			
		Result	
Load at 27.5N	Elongation %	Un-Recovered Elongation at 1 Mins (%)	Un-Recovered Elongation at 30 Mins (%)
Warp	5.07	0.0	0.0
Weft	3.60	0.0	0.0

Snagging Resistance (Rotating Chamber Method) (BS 8479:2008) 2000 Revolutions		
Measuring position	Grade	Defect type

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Length	4-5	A
Width	4-5	
Total number of snags	Small 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		

Tensile Strength (BS EN ISO 13934-1:2013)	
	Result
Warp	1292.1N
Weft	1222.2N

Tearing Strength (BS EN ISO 13937-1:2000; Elmendorf Tear)	
	Result
Warp	64+N
Weft	64+N

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



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Polyamide	5
Polyester	5
Acrylic	5
Wool	5

Colour Fastness To Washing (BS EN ISO 105-C06: 2010)	
	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

Colour Fastness To Perspiration (BS EN ISO 105-E04: 2013)		
	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

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)	
	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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Colour Fastness To Rubbing (BS EN ISO105-X12:2016); Size of rubbing finger: 16mm diameter			
Result			
Staining		Colour Change	
Length	Width	Length	Width
Dry: 5 Wet: 5	Dry: 5 Wet: 5	Dry: 5 Wet: 5	Dry: 5 Wet: 5

Colour Fastness To Rubbing – Foam Detergent (BS EN ISO105-X12:2016); Size of rubbing finger: 16mm diameter			
Result			
Staining		Colour Change	
Length	Width	Length	Width
5	5	5	5

Dimensional Stability To Washing (BS EN ISO 3759: 2011/BS EN ISO 5077:2008/BS EN ISO 6330:2012 (Procedure No.6M; Using horizontal axis, front-loading type machine: Machine wash at 60°C with 2kg total dry mass (ballast + specimen) and flat dry)	
Direction	%Change
Warp	-1.5
Weft	0.0

(+) Means Extension (-) denotes shrinkage

-End of Test Report-