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

Sample Description	:	Focus Royal Style Number: 2564
Customer	:	Gabriel
Colour	:	60512
Product type	:	Upholstery fabric
Fiber content	:	100% Wool

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

Sample Receiving Date : 19th July 2022


Testing Period : 19th July 2022 – 4th August 2022

Test Result(s) : For further details, please refer to the following page(s).
This 'a' report superseeds 28512792 as the colour reference has been changed.

Conclusion:

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

Signed for and on behalf of
TÜV Rheinland UK LTD

 Digitally signed
by Dathan Stone
Date: 2022.08.24
16:29:51 +01'00'

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)			
Result			
	Specimen 1	Specimen 2	Specimen 3
End point reached, three thread breakdown	115,000	115,000	115,000
Overall endpoint	115,000		
Colour Change At 3000 (rubs)	5	5	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 Pilling
After 5000 Rubs Rating	5 Pilling
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 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

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

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	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



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Colour Fastness To Rubbing (Foam Detergent) (BS EN ISO105-X12:2016); Size of rubbing finger: 16mm diameter				
Sample	Result			
	Warp		Weft	
	Dry: -		Dry: -	
	Wet: 5	% Soak: 100%	Wet: 5	% Soak: 100%

Seam Slippage (BS EN ISO 13936-2:2004)	
Sample	Result
Warp	3.2(mm)
Weft	3.8(mm)

Tensile Strength (BS EN ISO 13934-1:2013)	
Sample	Result
Warp	591.7(N)
Weft	637.8(N)

Tearing Strength (BS EN ISO 13937-3:2000; Single Tear)	
Sample	Result
Warp	>64(N)
Weft	>64(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	6.189	0.400	0.200	99.60	100.20



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Weft	5.739	2.200	0.200	97.80	99.80
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Colour Fastness To Rubbing – Organic Solvents (BS EN ISO105-D02:2016)		
Sample	Result	
	Warp	Weft
	Wet: 4-5	Wet: 4-5
Solvent used: Perchloroethylene		

Snagging Resistance (Rotating Chamber Method) (BS 8479:2008) 2000 Revolutions		
Measuring position	Grade	Defect type
Length	5	X
Width	5	
Total number of snags	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 Water Spotting (BS EN ISO105-E16:2007)		
Sample	Result	
	Shade change Centre	Grade 5
	Shade change Periphery	Grade 5



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Precisely Right.

Softlines

Gabriel[®]

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