

# Gabriel<sup>®</sup>

**Softlines** 

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

Sample Description	: Athlon / Athlon Plus Col: 60140 Light Grey	
Customer	:	Gabriel
Colour	:	60140 Light Grey
Product type	:	Upholstery fabric
Fiber content	:	56% PES 44% Trevira

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

Sample Receiving Date : 14<sup>th</sup> April 2021

Testing Period : 14<sup>th</sup> April 2021 – 28<sup>th</sup> April 2021

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

### **Conclusion:**

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

Signed for and on behalf of	
TÜV Rheinland UK LTD	



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George Mehmet Senior Laboratory Technician

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

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### Results:

### **Stability To Washing**

(BS EN ISO 3759: 2011 / BS EN ISO 5077: 2008 / BS EN ISO 6330: 2012)

Washing program No. 6M; Using horizontal axis, front-loading type machine: Machine wash at 60℃ with 2kg total dry mass (type II

(ballast+ specimen) and 'ECE(A)' detergent+ Sodium Perborate+ TAED, flat Dry.)

Direction	%Change
Warp	-3.0
Weft	-4.5
Appearance After Dry Cleaning	No changes observed

## **Colour Fastness To Washing**

(BS EN ISO 105-C06: 2010)

Washing Condition: C2S\_60°C With FCF(B) + Sodium Perborate, 25 Steel Balls

Sample	Result	
Colour Change	5	
Self-Staining	5	
Colour Staining	Result	
Acetate	5	
Cotton	4-5	
Polyamide	4-5	
Polyester	5	
Acrylic	5	
Wool	5	

## **Colour Fastness To Perspiration**

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	



Polyester

Acrylic

Wool

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Colour Fastness To V (BS EN ISO 105-E16:				
		1	Result	
	Shade change centre		5	
S	hade change periphery		5	
Colour Fastness To V (BS EN ISO 105-E01:	<b>vater</b> 2013) test specimen in verti	cal position		
Sample	e: 60140	Result		
Colour	Change	5		
Self-S	taining	5		
Colour	Staining	Result		
	etate	5		
	tton	5		
Polya	amide	5		

our Fastness To Dry cleaning 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	

Colour Fastness To Ru	bbing- Foam Deterg	ent			
(BS EN ISO105-X12:201	6); Size of rubbing fin	ger: 16mm diameter			
			Result		
Sample	Warp		Weft		
	<b>Dry:</b> 5	<b>Dry:</b> 5 <b>Dry:</b> 5			
	Wet: 5	100% Soak:	Wet: 5	100% Soak:	
	s: 20.5°C 65.5%				



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Seam Slippage (BS EN ISO 13936-2:2	2004)		
Samı	ole	Result	
War	р	1.0mm	
Weft		1.0mm	

#### **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, No 5mm <sup>2</sup> hole	100,000	100,000	100,000	
Overall result	No 5mm <sup>2</sup> Hole at 100,000			
Colour Change At 3000 (rubs)	4-5	4-5	4-5	
D	Nation in Land and the atom and a site	A (	1	

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 12945-2:2000; Martindale Abrasion & Pilling Tester; Total Load Applied 415g, tested against wool abradent fabric)

No cleansing required

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



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Tensile Strength (BS EN ISO 13934-1:2013)			
Sample		Result	
Warp		1725.4 N	
Weft		365.9 N	

#### **Elasticity of fabrics (Withdrawn)**

(BS EN ISO 14704-1:2005)

Strip sample

	Elongation @ 27.50N (%)	Un- Recovered Elongation at 1 Min	Un- Recovered Elongation at 30 Min
Warp	14.0	0.0	0.0
Weft	15.6	0.0	0.0

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

## **Snagging Resistance (Rotating Chamber Method)**

(BS 8479:2008)

2000 Payalutions

2000 Revolutions		
Measuring position	Grade	Defect type
Length	4-5	А
Width	4-5	
Total number of		

## 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



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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-