TÜVRheinland®
Precisely Right.
Softlines

Gabriel®

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

Sample Description	:	Bond
Customer	:	**Gabriel**
Colour	:	66157
Product type	:	Upholstery fabric
Fiber content	:	-

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

*   *   *   *

Sample Receiving Date   :   11th January 2021
Testing Period   :   11th January 2021 – 15th February 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	-	Flammability	Sub-con within group results to follow on completion
Colour fastness to Perspiration	-	Abrasion (ASTM D 4157)	Sub-con within group results to follow on completion
Seam Slippage	-	Colour fastness to Rubbing (Organic Solvents)	Sub-con within group results to follow on completion
Pilling	-		

Signed for and on behalf of
TÜV Rheinland UK LTD

UKAS TESTING
8400

George Mehmet
Laboratory Technician

Test result is drawn according to the kind and extent of tests performed.
Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted samples only.

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	-1.2
Weft	-3.0
Appearance After Dry Cleaning	No changes observed

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	-
Colour Staining	Result
Acetate	5
Cotton	5
Polyamide	4-5
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 Perspiration
(BS EN ISO 105-E04: 2013)

Sample ……	Result	
	Acid	Alkaline
Colour Change	5	5
Self-Staining	-	-
Colour Staining	Result	Result
Acetate	5	5
Cotton	5	5
Polyamide	4-5	4-5
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

Seam Slippage
(BS EN ISO 13936-2:2004)

Sample	Result
Warp	1.0mm
Weft	1.0mm

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

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 three thread breakdown	100,000	100,000	100,000
Overall result	100,000		
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

-End of Test Report-