Test
TS EN ISO/IEC 17025
AB-0342-T

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144427458

12/25

Test Report

TÜV Rheinland
Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.
Saniye Ermutlu Sokak Çolakoğlu Plaza B Blok No :12 Kozyatağı-İSTANBUL

GABRIEL A/S

Hjulmagervej, Aalborg DK-9000, Denmark

Report No.	144427458
Buyer	/
Test Item. :	Sail col.70999
Lot No. :	/
Manufacturer :	/
Fiber Content. :	/
Colour Name. :	/
Article No. :	/
End Use. :	/
Test Scope. :	Customer Selected Parameters

Applicant's Provided -
Care Instruction/Label:

Sample Receiving date: 2025-11-25 p.m. (Information rec. date:2025-11-28)

Testing Period: 2025-11-28 to 2025-12-09

Report Date: 2025-12-09

Test Result: Pass

TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş accredited by TÜRKAK under registration number AB-0342-T for ISO/IEC 17025-2017 as test laboratory

The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of the test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following, pages which are part of this report

For and on behalf of
TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş

Elif Kocasalli / CR Assistant
Project Manager

Abdullah Akil / Physical
Laboratory Manager

Test Result Summary :

Test Specification:	*Test result:*
1 Abrasion Resistance - Determination Of Specimen Breakdown	PASS
2 Pilling Resistance - Modified Martindale Method	NO COMMENT
3 Tensile Strength - Strip Test	NO COMMENT
4 Elongation Test	NO COMMENT
5 Tearing Strength - Elmendorf Method	NO COMMENT
6 Colour Fastness To Drycleaning	NO COMMENT
7 Colour Fastness To Perspiration	NO COMMENT
8 Dimensional Change After Commercial Drycleaning	NO COMMENT

1. Photo

2. List of Materials

Material List:

Material No.	Material	Color	Location
M001	Textile	Black	Woven base (col.70999)
M002	Textile	Black-Grey	Woven base (col.70999)

1.Abrasion Resistance - Determination Of Specimen Breakdown

Test method	:	Abrasion Resistance - Determination Of Specimen Breakdown (EN ISO 12947-2: 2016 / AC: 2006 acc. to EN ISO 14465: 12kPa Martindale)
Load	:	12kPa
100.000 rubs / Change After 3.000 rubs. / Flat kniited fabrics	:	Testing until a hole formation, should not exceed 5 mm2

	M001	M002	Requirement
Abrasion Resistance	>100.000	>100.000	100.000
Color change @3000 revs	4	4	-

Remark :   No threads broken

2.Pilling Resistance - Modified Martindale Method

Test method   :   Pilling Resistance - Modified Martindale Method (BS/DIN/EN/ISO 12945-2)

415g 2.000 rubs

	M001			Requirement
	Pilling	Fuzzing	Matting	
After 2000 revs	4-5	4-5	4-5	-
Average	NA	NA	NA	-

415g 5.000 rubs

	M001			Requirement
	Pilling	Fuzzing	Matting	
After 5000 revs				-
	4-5	4-5	4-5	-
Average	NA	NA	NA	-

Remark :   NA=Not Applicable

3.Tensile Strength - Strip Test

Test method   :   Tensile Strength - Strip Test (BS/DIN/EN/ISO 13934-1)

	M001	M002	Requirement
Breaking force			-
Warp	1108 N	1007 N	-
Weft	1235 N	1018 N	-

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4.Elongation Test

Test method   :   Elongation Test (BS/DIN/EN 14704-1, Method A/B)

27.5 N

	M001	M002	Requirement
Elongation at 27.5 N			-
Warp / Length	26.28%	26.28%	-
Weft / Width	15.07%	15.07%	-
Modulus at 40% elongation			-
Warp / Length	4.0%	4.0%	
Weft / Width	3.0%	3.0%	-
			-
Unrecovered elongation after 1 min			
Warp / Length	96.0%	96.0%	-
Weft / Width	97.0%	97.0%	
			-
Unrecovered elongation after 30 min			-
Warp / Length	98.0 %	98.0%	
Weft / Width	99.0 %	99.0%	-
Specimen width			-
			-
			-

5.Tearing Strength - Elmendorf Method

Test method   :   Tearing Strength - Elmendorf Method (BS/DIN/EN/ISO 13937-1)

	M001	M002	Requirement
Warp	>50.2 N	>50.2 N	-
Weft	>50.2 N	>50.2 N	-

6.Colour Fastness To Drycleaning

Test method   :   Colour Fastness To Drycleaning (BS/DIN/EN/ISO 105-D01)

	<u>M001</u>	<u>Requirement</u>
Colour change	4-5	-
Colour staining		
- Acetate	5	-
- Cotton	5	-
- Polyamide	5	-
- Polyester	5	-
- Acrylic	5	-
- Wool	5	-

	<u>M002</u>	<u>Requirement</u>
Colour change	4-5	-
Colour staining		
- Acetate	5	-
- Cotton	5	-
- Polyamide	5	-
- Polyester	5	-
- Acrylic	5	-
- Wool	5	-
Self staining	4-5	-

7.Colour Fastness To Perspiration

Test method   :   Colour Fastness To Perspiration (BS/DIN/EN/ISO 105-E04)

	M001		Requirement
	<u>Acid</u>	<u>Alkaline</u>	
Colour change	4-5	4-5	-
Colour staining			
- Acetate	5	5	-
- Cotton	5	5	-
- Polyamide	5	5	-
- Polyester	5	5	-
- Acrylic	5	5	-
- Wool	5	5	-

	M002		Requirement
	<u>Acid</u>	<u>Alkaline</u>	
Colour change	4-5	4-5	-
Colour staining	4-5	4-5	
- Acetate	5	5	-
- Cotton	5	5	-
- Polyamide	5	5	-
- Polyester	5	5	-
- Acrylic	5	5	-
- Wool	5	5	-

8. Dimensional Change After Commercial Drycleaning

Test method   : In-house Method

Test condition   : Commercial drycleaning with perchloroethylene

<u>M001 + M002</u>   <u>Requirement</u>

<u>After one dryclean</u>

Warp / Length	-0.4%	-
Weft / Width	-0.5%	-

Remark :   (+)   = Extension
              (-)   = Shrinkage

- END -