



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

AB-0342-T

144428545

12/25

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

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Test Report

GABRIEL A/S

Hjulgagervej, Aalborg DK-9000, Denmark

Report No. 144428545
Buyer /
Test Item. : Arch 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: 2025-12-18
Testing Period: 2025-12-18 to 2025-12-25
Report Date: 2025-12-25
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

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/

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The results given in this report belong to the received sample by vendor.

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This test report is signed by digital signature.

TÜV Rheinland testing laboratories apply the Zero Guard band rule for statement of conformity evaluation, unless other decision rule is required by the customer.

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Test Result Summary :***Test Specification:***

- 1 Abrasion Resistance - Determination Of Specimen Breakdown
- 2 Pilling Resistance - Modified Martindale Method
- 3 Tensile Strength - Strip Test
- 4 Elongation Test
- 5 Tearing Strength - Elmendorf Method
- 6 Colour Fastness To Drycleaning
- 7 Colour Fastness To Perspiration
- 8 Dimensional Change After Commercial Drycleaning

Test result:

PASS
NO COMMENT
NO COMMENT
NO COMMENT
NO COMMENT
NO COMMENT
NO COMMENT
NO COMMENT

1. Photo



2. List of Materials

Material List:

Material No.	Material	Color	Location
M001	Textile	Black	Woven base (70999 black)

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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 / : Testing until a hole formation, should not exceed 5 mm²
Change After 3.000
rubs. / Flat knitted
fabrics

	<u>M001</u>	<u>Requirement</u>
Color change @3000 revs	4-5	-
Abrasion Resistance	>100.000 rubs	100.000

Remark : No threads broken

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2.Pilling Resistance - Modified Martindale Method

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

415g 2.000 rubs

	<u>Pilling</u>	<u>M001 Fuzzing</u>	<u>Matting</u>	<u>Requirement</u>
After 2000 revs	4-5	4-5	4-5	-
Average	4-5	4-5	4-5	-

415g 5.000 rubs

	<u>Pilling</u>	<u>M001 Fuzzing</u>	<u>Matting</u>	<u>Requirement</u>
After 5000 revs	4-5	4-5	4-5	-
Average	4-5	4-5	4-5	-

Remark : NA=Not Applicable

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3.Tensile Strength - Strip Test

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

	<u>M001</u>	<u>Requirement</u>
<u>Breaking force</u>		-
Warp	1646.0 N	-
Weft	1096.0 N	-

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4.Elongation Test

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

27.5 N

	<u>M001</u>	<u>Requirement</u>
<u>Elongation at 27.5 N</u>		-
Warp / Length	11.6%	-
Weft / Width	10.3%	-
<u>Modulus at 40% elongation</u>		-
Warp / Length	3.0%	-
Weft / Width	4.0%	-
<u>Unrecovered elongation after 1 min</u>		-
Warp / Length	97.0%	-
Weft / Width	96.0%	-
<u>Unrecovered elongation after 30 min</u>		-
Warp / Length	98.0%	-
Weft / Width	97.0%	-
Specimen width		-

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5.Tearing Strength - Elmendorf Method

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

	<u>M001</u>	<u>Requirement</u>
Warp	>50.2 N	-
Weft	>50.2 N	-

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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	4-5	-
- Cotton	4-5	-
- Polyamide	4-5	-
- Polyester	4-5	-
- Acrylic	4-5	-
- Wool	4-5	-

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7.Colour Fastness To Perspiration

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

	<u>M001</u>		<u>Requirement</u>
	<u>Acid</u>	<u>Alkaline</u>	
Colour change	4-5	4-5	-
Colour staining			
- 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	-

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8. Dimensional Change After Commercial Drycleaning

Test method : In-house Method

Test condition : Commercial drycleaning with perchloroethylene

M001RequirementAfter one dryclean

Warp / Length -0.4%

-

Weft / Width -1.5%

-

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

- END -