

TEST REPORT

2024AN0903

DATE OF RECEPTION

Date Format: dd/MM/yyyy 15/04/2024

APPLICANT

GABRIEL A/S
HJULMAGERVEJ, 55
DK-9000 Ålborg
Denmark

DATE TESTS

Starting: 18/04/2024
Ending: 02/05/2024

Att. BENTE ELLINGSOE

IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer			AITEX sample description
2024AN0903-S01	TwilWool	1001	Light Grey	Fabric
2024AN0903-S02	TwilWool	1101	Grey	Fabric
2024AN0903-S03	TwilWool	1201	Black	Fabric
2024AN0903-S04	TwilWool	1301	Light Beige	Fabric
2024AN0903-S05	TwilWool	1401	Light Brown	Fabric
2024AN0903-S06	TwilWool	1202	Brown	Fabric
2024AN0903-S07	TwilWool	1501	Yellow	Fabric
2024AN0903-S08	TwilWool	1601	Orange	Fabric
2024AN0903-S09	TwilWool	1701	Orange Red	Fabric
2024AN0903-S10	TwilWool	1801	Light Brown Red	Fabric
2024AN0903-S11	TwilWool	1901	Light Violet	Fabric
2024AN0903-S12	TwilWool	1702	Red	Fabric
2024AN0903-S13	TwilWool	2001	Light Blue	Fabric
2024AN0903-S14	TwilWool	2101	Blue	Fabric
2024AN0903-S15	TwilWool	2102	Blue	Fabric
2024AN0903-S16	TwilWool	2201	Green	Fabric
2024AN0903-S17	TwilWool	2301	Green	Fabric

TESTS CARRIED OUT

- COLOUR FASTNESS TO ARTIFICIAL LIGHT.

Tests marked with * are not included within the scope of the ENAC accreditation.





RESULTS

COLOUR FASTNESS TO ARTIFICIAL LIGHT

Standard

EN ISO 105-B02:2014. Method 2

Apparatus

Xenotest 440 02423E06

Starting test date

18/04/2024

Ending test date

02/05/2024

Exposure conditions

Normal

Evaluation conditions

Light camera Gretagmacbeth (02021N06)

Reference	Light fastness
2024AN0903-S01	6
2024AN0903-S02	6
2024AN0903-S03	6
2024AN0903-S04	5
2024AN0903-S05	5-6
2024AN0903-S06	5-6
2024AN0903-S07	6
2024AN0903-S08	6
2024AN0903-S09	6
2024AN0903-S10	6
2024AN0903-S11	6
2024AN0903-S12	6
2024AN0903-S13	6
2024AN0903-S14	5-6
2024AN0903-S15	5-6
2024AN0903-S16	6
2024AN0903-S17	6

Remark

The fastness grade indicated comes up to:

- Depth change: More clear
- Hue change: No notes
- Brightness change: No notes

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MEANING OF COLOUR VALUES FASTNESS TO ARTIFICIAL LIGHT

VALUE	MEANING
8	EXCELLENT
7	VERY GOOD
6	GOOD
5	MODERATE
4	FAIR
3	POOR BEHAVIOUR
2	POOR BEHAVIOUR
1	VERY POOR

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The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2024AN0903-S01	TwillWool 1001 Light Grey
2024AN0903-S02	TwillWool 1101 Grey
2024AN0903-S03	TwillWool 1201 Black
2024AN0903-S04	TwillWool 1301 Light Beige
2024AN0903-S05	TwillWool 1401 Light Brown
2024AN0903-S06	TwillWool 1202 Brown
2024AN0903-S07	TwillWool 1501 Yellow
2024AN0903-S08	TwillWool 1601 Orange
2024AN0903-S09	TwillWool 1701 Orange Red
2024AN0903-S10	TwillWool 1801 Light Brown Red
2024AN0903-S11	TwillWool 1901 Light Violet
2024AN0903-S12	TwillWool 1702 Red
2024AN0903-S13	TwillWool 2001 Light Blue
2024AN0903-S14	TwillWool 2101 Blue
2024AN0903-S15	TwillWool 2102 Blue
2024AN0903-S16	TwillWool 2201 Green
2024AN0903-S17	TwillWool 2301 Green



RESULTS

COLOUR FASTNESS TO ARTIFICIAL LIGHT

Standard

AATCC TM 16.3:2020

Apparatus

WEATHER-OMETER, ATLAS CI 3000 (C-19816)

Starting test date

24/04/2024

Ending test date

26/04/2024

Exposure conditions

Black Panel 63°C, Relative humidity 30%, 420 nm², 1'10 W/m²

Total radiant energy

6912 KJ/m²

Test conditions

Without simple rotation, Mounting Procedure Backed.

Evaluation conditions

Light camera Gretagmacbeth (02021N06)

Grey Scale (0278N12)

Reference	Light fastness
2024AN0903-S01	5
2024AN0903-S02	5
2024AN0903-S03	5
2024AN0903-S04	5
2024AN0903-S05	5
2024AN0903-S06	5
2024AN0903-S07	5
2024AN0903-S08	5
2024AN0903-S09	5
2024AN0903-S10	5
2024AN0903-S11	5
2024AN0903-S12	5
2024AN0903-S13	5
2024AN0903-S14	5
2024AN0903-S15	5
2024AN0903-S16	5
2024AN0903-S17	5

Remark

The fastness grade indicated comes up to:

- Depth change: No notes
- Hue change: No notes
- Brightness change: No notes

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MEANING OF COLOUR FASTNESS APPRAISAL EVALUATED WITH GREY SCALE

VALUE	MEANING
5	VERY GOOD-EXCELLENT
4	GOOD
3	FAIR - MODERATE
2	POOR BEHAVIOUR
1	VERY POOR

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The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2024AN0903-S01	TwillWool 1001 Light Grey
2024AN0903-S02	TwillWool 1101 Grey
2024AN0903-S03	TwillWool 1201 Black
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2024AN0903-S05	TwillWool 1401 Light Brown
2024AN0903-S06	TwillWool 1202 Brown
2024AN0903-S07	TwillWool 1501 Yellow
2024AN0903-S08	TwillWool 1601 Orange
2024AN0903-S09	TwillWool 1701 Orange Red
2024AN0903-S10	TwillWool 1801 Light Brown Red
2024AN0903-S11	TwillWool 1901 Light Violet
2024AN0903-S12	TwillWool 1702 Red
2024AN0903-S13	TwillWool 2001 Light Blue
2024AN0903-S14	TwillWool 2101 Blue
2024AN0903-S15	TwillWool 2102 Blue
2024AN0903-S16	TwillWool 2201 Green
2024AN0903-S17	TwillWool 2301 Green



Isabel Soriano
Laboratories and International Offices Subdirector



Date: 03/05/2024 10:47:21

Digitally Signed by: MARIA ISABEL SORIANO SARRIO -

NIF: 52716426N

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