TEST REPORT

2022AN6064

DATE OF RECEPTION
09/02/2022

DATE TESTS
Starting: 14/02/2022
Ending: 17/02/2022

APPLICANT

GABRIEL A/S
HJULMAGERVEJ, 55
Ålborg
Dinamarca

Att. BENTE ELLINGSOE

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCE	REFERENCE PROVIDED BY THE CUSTOMER	DESCRIPTION
2022AN6064-S01	Art. Rhythm col. 60165.	Fabric
2022AN6064-S02	Art. Rhythm col. 68123	Fabric

TESTS CARRIED OUT

- SAMPLE IDENTIFICATION.
- SAMPLE DESCRIPTION.
- WATER SOAK.
- EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE.

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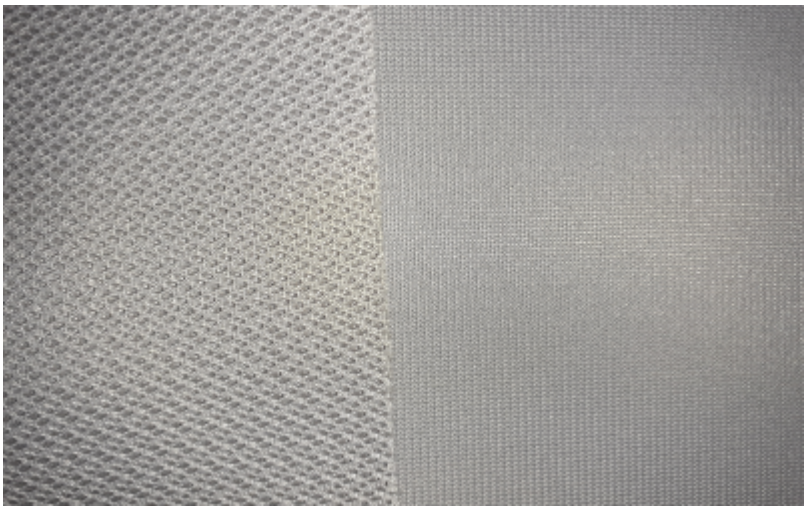
Tests marked with * are not included within the scope of the ENAC accreditation

RESULTS

SAMPLE IDENTIFICATION

Reference
2022AN6064-S01



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RESULTS

SAMPLE DESCRIPTION

Grey 3D fabric with a weight of 328 g/m^2. Composition: 100% polyester FR. Reference: 2022AN6064-S01, according to client.

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RESULTS

WATER SOAK

Standard

BS 5852:2006 Annex E

Reference

2022AN6064-S01

Method

A 1:20 portion of liquid is used. Each specimen is immersed in water with a non-ionic detergent at an initial temperature of (40±1)ºC. Check that the specimen is fully submerged. After 30 min, it is removed and rinsed with water using the same proportion for 2 min, and dried by laying it vertically.

Starting date	Ending date
14/02/2022	14/02/2022

Washing procedure deviation

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RESULTS

EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE

Standard
BS 5852:2006

Reference
2022AN6064-S01

Standard conditioned
72 h in door ambiental conditions and 16 h (for at least) / (20±5) ºC and (50±20) %HR

Starting and time date	Ending and time date
15/02/2022 9:00	17/02/2022 16:02

Ambiental conditions test
23,9 ºC / 30 %HR.

Speed air
0,08 m/s

Substrate
Fire retardant polyurethane foam having density of 33-37 Kg/m^3

Date test
17/02/2022

Ignition source
Nº 5

Position crib
Among seat / backrest

Result
NI/5 = No ignition
I/5 = Ignition

Duration of (s)		Extent of damage of horizontal component			Extent of damage of vertical component	
Flames	Smoke	Width	Length	Depth	Width	Depth
189	200	50	50	40	70	60
203	209	55	60	45	65	60

Results in accordance with the standard BS 5852:1982 Part 2

NI/5

Notes
There is a moderate emission of white smoke.

Test uncertainty
± 2.5%

Standard deviations

Observations
The test result relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not interested to be the sole criterion for assessing the potential fire hazard of the product in use.

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CRITERIA OF IGNITION CLAUSE 4

4.1 PROGRESSIVE SMOULDERING IGNITION
a) Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction is required.
b) For the smouldering cigarette source 0: any test specimen that produces externally detectable amounts of smoke, heat or glowing within the period from the extinction of the source until 60 min after placement of the source.
c) For all flaming ignition sources: any test specimen that smoulders until is essentially consumed or that smoulders to the extremities of the specimen, i.e. to either side or to/through the full thickness of the specimen, within the duration of the test.
d) For flaming ignition sources 2 and 3: any test specimen that produces externally detectable amounts of smoke, heat or glowing 15 min after removal of the burner tube.
e) For flaming ignition sources 4, 5, 6 and 7: any test specimen that produces externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib.
f) Any test specimen that, on final examination, shows evidence of charring within the filling (other than discolouration) more than 100 mm in any direction apart from upwards from the nearest part of the original position of the source.
4.2 FLAME IGNITION
a) Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction is required
b) Any test specimen that burns until it is essentially consumed within the test duration.
c) Any test specimen on which any flame front reaches the extremities of the specimen other than the top of the vertical part of the test specimen, or passes through the full thickness of the specimen within the duration of the test.
d) For flaming ignition sources 2 and 3: any test specimen that continues to flame for more than 120 s after removal of the burner tube or in which the flame front spreads past a vertical line 100 mm from the tip of the burner tube
e) For flaming ignition sources 4 and 5: any test specimen that continues to flame for more than 10 min after ignition of the crib.
f) For flaming ignition sources 6 and 7: any test specimen that continues to flame for more than 13 min after ignition of the crib.
g) For all sources: any test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer than the time given in d), e) or f).

Remark

A flaming ignition is considered to be the occurrence of any flames initiated by a smouldering source.

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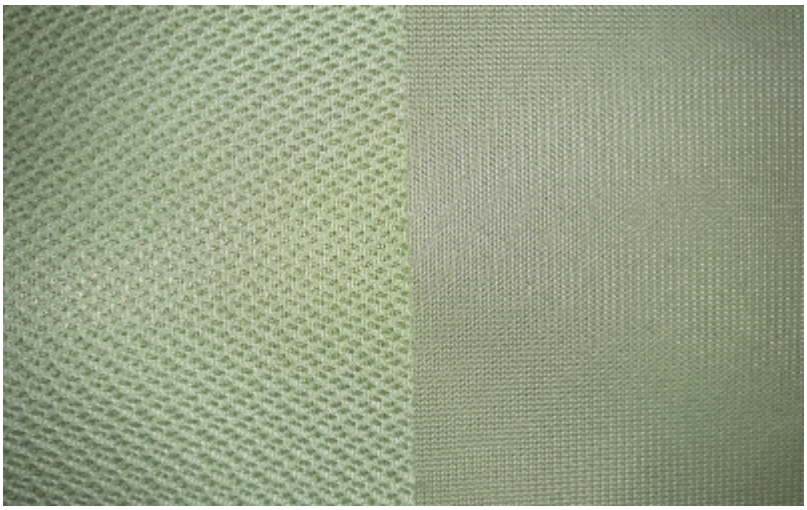
RESULTS

SAMPLE IDENTIFICATION

Reference
2022AN6064-S02



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RESULTS

SAMPLE DESCRIPTION

Green 3D fabric with a weight of 328 g/m^2. Composition: 100% polyester FR. Reference: 2022AN6064-S02, according to client.

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RESULTS

WATER SOAK

Standard

BS 5852:2006 Annex E

Reference

2022AN6064-S02

Method

A 1:20 portion of liquid is used. Each specimen is immersed in water with a non-ionic detergent at an initial temperature of (40±1)ºC. Check that the specimen is fully submerged. After 30 min, it is removed and rinsed with water using the same proportion for 2 min, and dried by laying it vertically.

Starting date	Ending date
14/02/2022	14/02/2022

Washing procedure deviation

_____///

RESULTS

EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE

Standard
BS 5852:2006

Reference
2022AN6064-S02

Standard conditioned
72 h in door ambiental conditions and 16 h (for at least) / (20±5) ºC and (50±20) %HR

Starting and time date	Ending and time date
15/02/2022 9:00	17/02/2022 16:30

Ambiental conditions test
23,9 ºC / 29,5 %HR.

Speed air
0,08 m/s

Substrate
Fire retardant polyurethane foam having density of 33-37 Kg/m^3

Date test
17/02/2022

Ignition source
Nº 5

Position crib
Among seat / backrest

Result
NI/5 = No ignition
I/5 = Ignition

Duration of (s)		Extent of damage of horizontal component			Extent of damage of vertical component	
Flames	Smoke	Width	Length	Depth	Width	Depth
163	199	65	60	30	55	40
177	207	55	65	40	40	45

Results in accordance with the standard BS 5852:1982 Part 2

NI/5

Notes
There is a moderate emission of white smoke.

Test uncertainty
± 2.5%

Standard deviations

Observations
The test result relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not interested to be the sole criterion for assessing the potential fire hazard of the product in use.

>>>

CRITERIA OF IGNITION CLAUSE 4

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g) For all sources: any test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer than the time given in d), e) or f).

Remark

A flaming ignition is considered to be the occurrence of any flames initiated by a smouldering source.

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Celia Dolçà
Head of Fire Behaviour lab.

Date: 18/02/2022 12:23:18
Digitally Signed by:CELIA DOLÇA CAMAÑEZ - NIF:21696122S

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