BTTG

TESTING • CERTIFICATION • AUDITING

Confidential Report

Our Ref: 55831-1-2

ilac-MRA

UKAS TESTING

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Notified Body
for PPE Directive,
Construction Products Regulation
& Marine Equipment Directive
I.D. No. 0338 & 0339

Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 17 December 2018

Our Ref: 55831-1-2
Your Ref: -

Client: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltoft
Italy.

Job Title: Fire Test on One Sample of Fabric

Client's Order No: --

Date of Receipt: 10 December 2018

Description of Sample(s): One sample of fabric, referenced Atom, stated to be 90% new wool, 8% nylon, 2% polyester, worsted

Work Requested: We were asked to make the following test(s):

BS EN 1021-1:2014 and BS EN 1021-2 2014

Note: This report relates only to the samples submitted and as described in the report.

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited

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Date: 17 December 2018

Our Ref: 55831-1-2
Your Ref: -

Client: Kvadrat A/S

FIRE TESTS ACCORDING TO BS EN 1021-1:2014
Assessment of the ignitability of upholstered furniture. Part I. Ignition Source 0: Smouldering cigarette

Date of Test: 17 December 2018

Pre-Treatment

The sample was water-soaked and dried in accordance with BS EN 1021 Part 1:Annex D.

Conditioning

After drying the sample was conditioned for at least 16 hours at a temperature of 23±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m^3 and 17ºC.

Procedure

The test was carried out in accordance with BS EN 1021-1:2014. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The sample was tested over non-fire retardant polyurethane foam with a density of approximately 20-22 kg/m^3.

Tests were made using ignition source 0.

Requirements
The specimens shall not:-

Smouldering Criteria

a) display escalating combustion requiring active extinction.
b) smoulder or burn until it is essentially consumed within the test duration.
c) smoulder or burn to the extremities of the specimen, or through the full thickness, within the duration of the test.
d) smoulder for more than one hour.
e) on final examination, show evidence of progressive smouldering.

Flaming Criteria

a) show evidence of flaming initiated by a smouldering source.

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Date: 17 December 2018

Our Ref: 55831-1-2
Your Ref: -

Client: Kvadrat A/S

Results

	Cigarette			Comments
	1	2	3[1]	
Smouldering Criteria (Yes/No)				
Unsafe escalating combustion	No	No	--	
Test assembly consumed	No	No	--	
Smoulders to extremities	No	No	--	
Smoulders through thickness	No	No	--	
Smoulders more than1 hour	No	No	--	
In final examination, presence of progressive smouldering	No	No	--	
Ignitability Performance (Yes/No)				
Occurrence of flames	No	No	--	
Ignition / Non Ignition (I/NI)	NI	NI	--	

[1] Results for cigarette 3, only if applicable.

Note

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Comments

A NI designation indicates that the sample meets the performance requirements of BS EN 1021-1.

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Date: 17 December 2018

Our Ref: 55831-1-2
Your Ref: -

Client: Kvadrat A/S

FIRE TESTS ACCORDING TO BS EN 1021-2:2014
Assessment of the ignitability of upholstered furniture. Part 2. Ignition Source 1: Match flame equivalent.

Pre-Treatment

The sample was water-soaked and dried in accordance with BS EN 1021 Part 2:Annex D.

Conditioning

The sample was water-soaked and dried in accordance with Annex D of this standard. After drying the sample was conditioned for at least 16 hours at a temperature of 23±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m^3 and 17ºC.

Procedure

The test was carried out in accordance with BS EN 1021-2:2014. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The sample was tested over non-fire retardant polyurethane foam with a density of approximately 20-22 kg/m^3.

Tests were made using ignition source 1.

Requirements

The specimens shall not:-

Smouldering Criteria

a) display escalating combustion requiring active extinction.
b) smoulders until it is essentially consumed within the test duration.
c) smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
d) smoulder for more than one hour.
e) show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.

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Client: Kvadrat A/S

Requirements (Continued)

Flaming Criteria

a) display escalating combustion requiring active extinction.
b) burns until it is essentially consumed within the test duration.
c) burns to the extremities of the specimen, or through the full thickness, within the duration of the test.
d) exhibit any flaming for more than 120 seconds after removal of the burner tube.

Results

	Match Flame Equivalent		Comments
	1	2	
Smouldering Criteria (Yes/No)			
Unsafe escalating combustion	No	No	
Test assembly consumed	No	No	
Smoulders to extremities	No	No	
Smoulders through thickness	No	No	
Smoulders more than 1 hour	No	No	
In final examination, presence of progressive smouldering	No	No	
Ignitability Performance (Yes/No)			
Unsafe escalating combustion	No	No	
Test assembly consumed	No	No	
Flames to extremities	No	No	
Flames through thickness	No	No	
Flames longer than 120 seconds	No	No	
Ignition / Non Ignition (I/NI)	NI	NI	

Note

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

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Client: Kvadrat A/S

Comments

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.

Reported by:……..
B Bland
Lab Technician

Countersigned By:……..
P Doherty
Manager

Enquiries concerning this report should be addressed to Customer Services.

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Uncertainty Budget - Annex

The overall uncertainty budget for both BS EN 1021:Part 1 and 2:2014 is as follows:-

Timings: ±2 seconds.

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