Confidential Report

Our Ref: 53142-1-3

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.
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Date: 14 March 2017

Our Ref: 53142-1-3
Your Ref: 1903

Client: Kobefab International B.V.
De Vest 62
5555 XP Valkenswaard
Netherlands.

Job Title: Fire Test on One Sample of Fabric

Client's Order No: --

Date of Receipt: 28 February 2017

Description of Sample(s): Arrow FR 300cm, stated to be 100% PES FR

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

IMO FTP Code 2010 Part 7 (Test for Vertically Supported Textiles & Films)

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

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Product Description Sheet

Type of Material, i.e. Curtain, Drape, etc.	Curtains
Name and/or Identification of the Product Tested	Arrow FR
Mass per Unit Area (g/m^2)	Approx. 325 g/m2
Thickness (mm)	1 mm
Colour and Tone (i)	--
Quantity and Number of Any Coating	-
Method and Quantity of Fire Retardant Treatment	Inherent Pes FR
Materials of the Product and its Composite Ratio (ii)	100% Pes FR
Composition of Weave (iii)	Jacquard yarn dyed
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	-
Yarn Number Count	-

(i) Such as wool, nylon, polyester, etc.
(ii) Such as plain, weave, twilled.
(iii) If the product has a pattern, the representative colour shall be described.

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FIRE TESTS ACCORDING to IMO FTP Code 2010:Part 7
Test for Vertically Supported Textiles and Films

Cleaning Procedure

The sample was subjected to the water leaching procedure as specified in the IMO FTP Code 2010:Part 7 Appendix 3.

Conditioning

The sample was conditioned for 72 hours in the standard atmosphere for conditioning textiles of 20± 5°C and 65 ± 5% R.H.

Procedure

The sample was tested in accordance with IMO FTP Code 2010:Part 7. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

A 40mm high propane gas flame was applied to the edge of 5 warp and 5 weft specimens for 15 seconds.

The after-flame time, length of char, existence of surface flashing and ignition of cotton waste from drops were recorded.

Requirements

The Performance Criteria for Curtains and Drapes states that: Products which show any of the following characteristics obtained by the fire test in appendix 1, shall be considered unsuitable for use as curtains, drapes or free-hanging fabric product for use in rooms containing furniture and furnishings of restricted fire risk as defined in the relevant regulations of chapter II-2 of the Convention:-.

1. An after-flame time greater than 5 sec for any of the 10 or more specimens tested with surface application of the pilot flame.
2. Burn through to any edge of any of the 10 or more specimens tested with surface application of the pilot flame.
3. Ignition of cotton wool below specimen in any of the 10 or more specimens tested.
4. An average char length in excess of 150mm observed in any of the 10 or more specimens tested by either surface or edge ignition; and
5. The occurrence of a surface flash propagating more than100mm from the point of ignition with or without charring of the base fabric.

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As Received

	After flame time (s)		Char length (mm)		Burning Droplets (Yes or No)		Flaming to edge (yes or No)	
	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft
	4	0	45	56	No	No	No	No
	0	0	70	31	No	No	No	No
	0	0	49	34	No	No	No	No
	0	3	50	84	No	No	No	No
	0	0	51	54	No	No	No	No
Mean	-	-	53	52				

After water leaching

	After flame time (s)		Char length (mm)		Burning Droplets (Yes or No)		Flaming to edge (yes or No)	
	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft
	0	0	53	51	No	No	No	No
	0	0	38	34	No	No	No	No
	0	0	39	49	No	No	No	No
	0	0	45	36	No	No	No	No
	0	0	43	62	No	No	No	No
Mean	-	-	44	46				

Comment

In our opinion, based on the test carried out on the sample supplied; the results indicate the sample meets the requirements according to IMO 2010 FTP Code, Part 7.

Reported by:……..
R Ryan (Mr)
Fire Technician

Countersigned By:……..
P Doherty
Operational Head

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Uncertainty Budget - Annex

The overall uncertainty budget IMO FTP Code 2010:Part 7 is as follows:-

Measurements: ±1mm
Duration of Flaming: ±0.5 seconds

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