



**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/02809B/05/13

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

**Fire Technology Services
A division of BTTG T & C Ltd
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26 June 2013

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Client: Eco-Sol Ltd
Cardiff House
Cardiff Road
Barry
Vale of Glamorgan
CF63 2AW

Job Title: **Fire Test on One Sample of Fabric**

Clients Order Ref: ---

Date of Receipt: 10 May 2013

Description of Sample: One sample of fabric, referenced: **Silk 90 g/m²**.

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to IMO FTP Code 2010:Part 7.





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Eco-Sol Ltd

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

Date of Test: 17/06/13

Cleaning Procedure

The sample was subjected to 10 accelerated dry cleaning cycles as specified in the IMO FTP Code 2010:Part 7 Appendix 3. The sample was submitted to an external dry cleaning company.

Conditioning

The sample was conditioned for 72 hours in the standard atmosphere for conditioning textiles of $20 \pm 5^\circ\text{C}$ and $65 \pm 5\%$ 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 face of 5 warp and 5 weft specimens for 5 seconds.

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





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Requirements

Appendix 3 of the above document: Proposed Criteria for Curtains and Drapes, states that: Products which show any of the following characteristics should 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.

1. An after-flame time greater than 5 sec with surface application of the pilot flame.
2. Burn through to any edge with surface application of the pilot flame.
3. Ignition of cotton wool below specimen.
4. An average char length in excess of 150mm.
5. The occurrence of a surface flash propagating more than 100mm from the point of ignition.
6. If one of any of the five specimens in each direction fails to meet the above criteria, one complete re-test of a similar batch is permitted. Failure of the second batch to meet any of the criteria should provide the basis for rejection of the fabric for use.

Results

The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criteria for assessing the potential fire hazard of the product in use.

	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	220	200	No	No	Yes	No
	0	0	65	100	No	No	No	No
	0	0	95	80	No	No	No	No
	3.8	0	220	110	No	No	Yes	No
	0	0	55	80	No	No	No	No
Mean	0.76	0	131	114				



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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:..... *B Marsden* B Marsden (Mrs), Fire Technician

Countersigned by:..... *P Doherty* P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.

