

FIRA test on foam in hm85 and hm86 shells



TECHNICAL REPORT

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For the attention of Mr Arne Dilling

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Our Ref: TFFLF03406
Your Ref: None
Date: 16/1/04

SAMPLE (S) FOR TEST:

A sample of pink foam – no reference supplied

Note: The above descriptions are as supplied by the client and have not been verified by FIRA who can take no responsibility for the accuracy of the description.

Samples received: 9/12/03, as new

TEST REQUIREMENTS

Ignitability test as described in The Furniture and Furnishings (Fire) (Safety) Regulations 1988 - Amended 1989 and 1993 Schedule 1 Part I which forms the basis of acceptability for polyurethane slab foam for use in domestic upholstered furniture from March 1989.

The following 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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FIRA International Limited

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TECHNICAL REPORT

FURNITURE AND FURNISHINGS (FIRE) (SAFETY) REGULATIONS 1988 - AMENDED 1989 AND 1993 SCHEDULE 1 PART 1 FOR POLYURETHANE FOAM

Enquiry No: TFFLF03406

Description/Identification: A sample of pink foam – no reference supplied

Conditioning: ≥ 4 days at $20 \pm 5^\circ\text{C}$ and $50 \pm 20\%$ relative humidity

Test conditions: 18°C and 38% relative humidity

Test procedure - as detailed in Schedule 1 Part 1 to the above Regulations using the specified FR polyester cover material.

TEST RESULTS: PASS – NON IGNITION

Ignition Source		Ignition/ Non-Ignition	Duration of			Reasons for Fail/Comments
No.	Pos.		Ignition Source	Flames	Smoke/ Smoulder	
5	1	PASS (N/I)	2min49sec	4min35sec	9min42sec	None
	2	PASS (N/I)	2min58sec	4min01sec	9min28sec	

Uncertainty of measurement +/- 0.3s

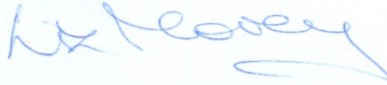
Uncertainty of measurement +/- 1.89g

EXTENT OF DAMAGE: Flame front penetrated full thickness.

WEIGHT LOSS: 1st Application: 49g
2nd Application: 42g

This filling PASSES the test specified in Schedule 1 Part 1 of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 - Amended 1989 and 1993.

Tested by: Stephen Cotton
Date tested: 15/1/04
Checked by: Liz Morey
Section Leader – Upholstery



The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

