

Ignitability test for polyurethane foam in slab form according to Schedule 1 Part I of the Furniture and Furnishings (Fire) (Safety) Regulations 1988, amended 1989 and 1993, (SI 1988/No.1324, SI 1989/No.2358, SI 1993/No.207)

Sample Identification

A urethane foam identified by the client as:-
T 40 CM

Test result

The following test result relates only to the ignitability of the combination of upholstery composites under the particular conditions of test; it is not intended as a means of assessing the full potential fire hazard of the materials in use.

On the basis of the tests carried out as described, it is the opinion of this laboratory that this sample of foam would MEET the requirements of Schedule 1 Part I of the Furniture and Furnishings (Fire) (Safety) Regulations 1988, (amended 1989 and 1993) if the FR Polyester fabric specified in the test procedure was available.

Conditioning

More than 4 days at $20 \pm 5^\circ\text{C}$ and $50 \pm 20\%\text{rh}$.

Procedure


The test, based on BS 5852: Part 2:1982, was carried out as described in Schedule 1 Part I of the Regulations using ignition source 5. A separate test assembly was used for each application. The tests were carried out using a 220g/m^2 flame retardant polyester fabric which deviates in part from the specification stated in Schedule 1 Part I of the Regulations. Although this fabric does not fully meet the specification laid down in the Regulations, this was regarded as having no significant effect on the test.

Details of observations

Source application number	1	2
Progressive smouldering ignition:		
Unsafe escalating combustion occurred	No	No
Smouldered until essentially consumed	No	No
Smouldered to extremities	No	No
Smouldered through full thickness	No	No
Time to cessation of smoke, heat or glowing (60 minute limit)	7 minutes 25 seconds	7 minutes 34 seconds
Flaming ignition:		
Unsafe escalating combustion occurred	No	No
Flamed until essentially consumed	No	No
Flame front reached extremities	No	No
Flame front passed through full thickness	No	No
Time to flames self-extinguishing (10 minutes allowed)	2 minutes 35 seconds	2 minutes 42 seconds
Weight loss (g)	23	22

Testing by: T. Notley on 6th April 2010
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FUR0183729.2
Date: 7th April 2010

Signed:


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