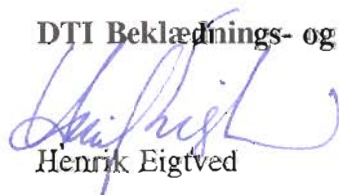


Test Report No. A 350-4-4405**Testing of Flammability of Polyurethane Foam**

Client	Westnøfa Industrier a.s. N-6301 Åndalsnes (Norway)
Material Tested	Sample of polyurethane foam, received as specimens cut to the required dimensions. Designation: rosa, støpt Density approx. 72 kg/m ³ Sealed reference sample enclosed.
Sampling	The material was submitted by the client and received at the Institute on 2 June 1994.
Test Methods	California Bureau of Home Furnishings and Thermal Insulation Technical Bulletin 117, January 1980, Section A, Part I and Section D, Part II. Details of the tests are given on pages 2 and 3 of this report.
Date Tested	14 June 1994
Test Result	The polyurethane foam under test meets all requirements to flammability of resilient cellular materials specified in said Bulletin 117 from Bureau of Home Furnishings and Thermal Insulation, State of California, USA.

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DTI Beklædnings- og Textilinstituttet
Henrik Eigtved

Taastrup, 16 june 1994

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Test Report A 350-4-4405

Testing according to Bulletin 117, Section A, Part I

Test Material Polyurethane foam designated rosa støpt

Test Procedure Vertical testing of the resistance to flame and glow propagation and tendency to char in accordance with Federal Test Method Standard No. 191, method 5903.2, after conditioning the specimens at $21 \pm 2^\circ\text{C}$ ($70 \pm 5^\circ\text{F}$) and less than 55% RH. Five specimens were tested in the state as received and five specimens were tested after ageing for 24 hours at 104°C (220°F).

Test Results		Afterflame time, s	Afterglow time, s	Char in	Length cm
	1	0	0	0.9	2.3
state	2	0	0	1.0	2.6
as	3	0	0	0.8	2.1
received	4	0	0	0.7	1.8
	5	0	0	0.7	1.8
	average	0	0	0.8	2.1
	6	1	0	0.6	1.6
	7	1	0	0.7	1.9
after	8	1	0	0.7	1.9
ageing	9	1	0	0.8	2.0
	10	1	0	0.8	2.0
	average	1	0	0.7	1.9

The char lengths in inches are calculated from measurements to the nearest 0.1 cm.

Requirements According to Bulletin 117, Section A, Part 1, Point I, all specimens shall meet the following requirements:

<u>Afterflame time, s</u> individual <u>average specimens</u>	<u>Afterglow time, s</u> <u>average</u>	<u>Char length, in</u> individual <u>average specimens</u>
max. 5	max. 5	max. 6
	max. 15	max. 8

The foam under test meets these requirements.

jpe/jco - Taastrup, 16 June 1994



Test Report A 350-4-4405

Test Material Polyurethane foam designated rosa støpt

Testing according to Bulletin 117, Section D, Part II

Test Procedure Smoldering Screening Test (Cigarette Test) for resilient cellular materials made on specimens conditioned at $21 \pm 2^\circ\text{C}$ ($70 \pm 5^\circ\text{F}$) and less than 55% RH. The percentage of nonsmoldered foam after testing was determined by weighing the test specimens before and after testing.
Three determinations were made.

Test Results	Test No.		
	1	2	3
Weight of foam specimens in g before testing	218.22	211.60	217.90
after testing	217.26	210.13	216.09
Percent of non-smoldered foam after testing	99.6	99.3	99.2

Requirements According to Bulletin 117, Section D. Part II, Point 5, all test specimens shall have a non-smoldered residue greater than 80%.

The foam under test meets this requirement.