



**SINTEF Civil and
Environmental Engineering**
Norwegian Fire Research Laboratory

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Trondheim,
2000-11-14

TEST REPORT

Task no.: 22N010.50 / 00.310 A

Test method/Standard: NS-EN 1021-1:1993 (Ignition source: Smouldering cigarette)
NS-EN 1021-2:1993 (Ignition source: Match flame equivalent)

Intention of test: Documentation for approval

Test performed at: **SINTEF Civil and Environmental Engineering,
Norwegian Fire Research Laboratory**
Tiller bru, Tiller
N-7465 Trondheim
NORWAY

*Total number of pages:
(Appendices included)* 4

Client: Westnofa Industrier as

Name of product: **Weflex moulded**

Type of product: Foam

Product description: 6 specimens of light pink foam with dimensions 450 mm x 300 mm, thickness 75 mm. Nominal and measured density: 55 kg/m³ and 51 kg/m³ respectively. The foam was tested in combination with 100 % FR polyester fibre according to *Consumer Protection The Furniture and Furnishings (Fire) (Safety) regulations 1988.*


The results presented in this test report may only be quoted in full.
Excepts may be quoted only with the written permission of SINTEF Civil and Environmental Engineering - Norwegian Fire Research Laboratory.

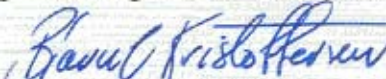
The test results referred to in this report relate only to the items tested.

Test reports from SINTEF Civil and Environmental Engineering - Norwegian Fire Research Laboratory form the basis of fire technical classifications, certifications and approvals.

<i>Manufacturer:</i>	Westnofa Industrier as
<i>Place of production:</i>	6301 Åndalsnes, Norway
<i>Samples received:</i>	2000-10-17
<i>Sampling:</i>	The test material was chosen by the client
<i>Number of single tests:</i>	2 of each of the ignition sources cigarette and small flame
<i>Conditioning of the specimen:</i>	The materials were conditioned for 16 hours immediately before the fire tests in air with a relative humidity of 50 % and at a temperature of 23 °C.
<i>Date of testing:</i>	2000-10-31
<i>Duration of the test:</i>	1 hour for each test
<i>Operator:</i>	Erling Stenhaug, engineer
<i>Test results:</i>	See tables, Appendix I
<i>Remarks/deviations:</i>	<p>According to the standard, the following statement shall be given in the test report: <i>The above 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.</i></p> <p>The product was tested in combination with 100 % FR polyester fibre according to <i>Consumer Protection The Furniture and Furnishings (Fire) (Safety) regulations 1988.</i></p> <p>The product Weflex moulded satisfies the criteria for flaming and smouldering ignition tested with ignition sources smouldering cigarette and match flame equivalent, according to NS-EN 1021-1 and NS-EN 1021-2 respectively.</p>
<i>Appendices:</i>	Appendix I Test procedure and test results Appendix II Criteria for classification

SINTEF Civil and Environmental Engineering - Norwegian Fire Research Laboratory


Anne Steen Hansen
Discipline Manager
Reaction to Fire


Bjarne Kristoffersen
Senior Engineer

CRITERIA FOR CLASSIFICATION IN ACCORDANCE WITH NS-EN 1021-1:1993 AND NS-EN 1021-2:1993.

The test assembly shall not show any sign of progressive smouldering ignitions or flaming ignition, as described in the following:

Progressive smouldering ignitions:

- any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;
- any test assembly that smoulders until it is essentially consumed within the test duration;
- any test assembly that smoulders to the extremities of the specimen, viz. upper or lower margins, either side or to its full thickness, within the duration of the test;
- any test assembly that smoulders for more than one hour;
- any test assembly that, on final examination shows evidence of charring other than discoloration, for more than 100 mm in any direction apart from upwards from the nearest part of the original position of the source;

Flaming ignition:

- any test assembly that displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary;
- any test assembly that burns until it is essentially consumed within the test duration;
- any test assembly on which any flame front reaches the lower margin, either side or passes through its full thickness within the duration of the test.