



REPORT

Elmo Leather AB
512 81 SVENLJUNGA

Handläggare, enhet / *Handled by, department*
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2002-11-13

Beteckning / *Reference*
P205246

Sida / *Page*
1 (2)

Ignitability according to DIN 53438, Part 3, 1984 (1 enclosure)

Product

Cover material called "ELMOSOFT", lightly pigmented chrome free leather from cattle hide. Nominal thickness 1.1 - 1.3 mm.

Manufacturer

Elmo Leather AB, Svenljunga, Sweden.

Purpose of test

Basis for technical fire classification.

Sampling

The sample was delivered by the client. It is not known to SP, Fire Technology if the product received is representative of the mean production characteristics.

The sample was received October 29, 2002 at SP, Fire Technology.

Test results

The test results are given in enclosure 1.

The test results relate only to the behavior of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Criteria

According to DIN 53 438, Part 3 (June 1984), section 5, a material, when tested according to DIN 53 438, Part 3, section 4.4, is assessed to meet the technical fire requirements for:

- Class F 1 if the flame tip on the burning test piece does not reach the upper gauge mark at 190 mm.
- Class F 2 if the flame tip on the burning test piece reaches the upper gauge mark at 190 mm in 20 seconds or longer.
- Class F 3 if the flame tip on the burning test piece reaches the upper gauge mark at 190 mm in less than 20 seconds.

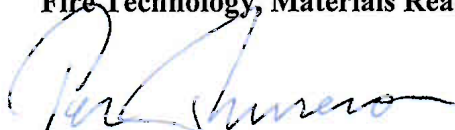
According to DIN 5510-2, (1996), section 4.2.1, a material, when tested according to DIN 53 438, Part 3, section 4.4, is assessed to meet the technical fire requirements for:

- Class S1 if the flame tip on the burning test piece does not reach the upper gauge mark at 190 mm or reaches the upper gauge mark at 190 mm in 20 seconds or longer.

Assessment

The tested sample of the product called "ELMOSOFT" meets the technical fire requirements for class F 1/1.2 mm according to DIN 53 438, Part 3 and class S1/1.2 mm according to DIN 5510-2.

SP Sveriges Provnings- och Forskningsinstitut
Fire Technology, Materials Reaction to Fire



Per Thureson
Technical Manager



Patrik Johansson
Technical Officer

Enclosure

1 Test results



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Sida/Page
1 (1)
Enclosure 1

Test results - DIN 53438, Part 3, 1984

Product

Cover material called "ELMOSOFT", lightly pigmented chrome free leather from cattle hide. Nominal thickness 1.1 - 1.3 mm.

Application

Surface exposure.

Test results

Test no	The sample ignited (s)	The flames reach 190 mm (s)	Flames died out (s)	Burning droplets Y/N	Time when filter paper ignite (s)	Damaged length (mm)
1	-	-	-	N	-	42
2	-	-	-	N	-	32
3	-	-	-	N	-	31
4	-	-	-	N	-	37
5	-	-	-	N	-	43

Measured data

Area weight 720 - 810 g/m²

Conditioning

Temperature (23 ± 2) °C.
Relative humidity (50 ± 5) %.

Date of test

November 11, 2002.