

Elmo Leather AB
512 81 SVENLJUNGA

Handläggare, enhet / *Handled by, department*
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Beteckning / *Reference*
P204040A

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Burning rate according to SS-ISO 3795

(1 enclosure)

Product

Lightly pigmented chrome free leather from cattle hide called "Elmosoft", 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 September 3, 2002 at SP, Fire Technology.

Test procedure

The numbers of tests were five, as specified in SS-ISO 3795.

Test results

The test results are given in enclosure 1.

The test results relate only to the behaviour 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.

Classification criteria

Criteria for "Prevention of fire risks for vehicle cab" as specified in ADR 220 531 (1): "Only material not readily flammable shall be used in the construction of the driver's cab. This requirement will be deemed to be met if, in accordance with the procedure specified in ISO standard 3795-1989, samples of the following cab components have a burn rate not exceeding 100 mm/min: seat cushions, seat backs, safety belts, head lining, opening roofs, arm rests, all trim panels including door, front, rear, and side panels, compartment shelves, head restraints, floor coverings, sun visors, curtains, shades, wheel housing covers, engine compartment covers, mattress covers and any other interior materials, including padding and crash-deployed elements, that are designed to absorb energy on contact by occupants in the event of a crash."

According to FMVSS 302 S4.3 (a) a material shall not have a burning rate of more than 4 inches per minute (102 mm per minute).

S4.3 (b) If a material stops burning before it has burned for 60 seconds from the start of timing, and has not burned more than 2 inches from the first measuring point where timing started, it shall be considered to meet the burn rate requirement of S4.3.

Assessment

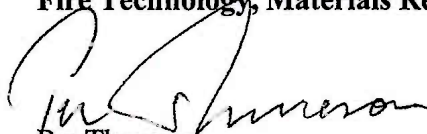
The tested sample of the product called "Elmosoft" meets the technical fire requirements according to ADR 220 531 (1) as the material has a burning rate less than 100 mm/min.

The tested sample of the product called "Elmosoft" meets the technical fire requirements according to FMVSS 302 S4.3 (a) and S4.3 (b) criteria as the material has a burning rate less than 102 mm/min.

Note

The accreditation referred to in this report is valid for the testing according to SS-ISO 3795 (FMVSS 302).

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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Enclosure 1

Test results - SS-ISO 3795, 1991

Product

Lightly pigmented chrome free leather from cattle hide called "Elmosoft", nominal thickness 1.1 - 1.3 mm.

Observations made during fire test

Test no	1	2	3	4	5
Sample dimension, mm					
length	356	356	356	356	356
width	100	100	100	100	100
Burnt distance, mm	0	0	0	0	0
Burning time, s	0	0	0	0	0
Burning rate, mm/min	0	0	0	0	0

Note

In all tests the flames died out before reaching the first measuring point.

Conditioning

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

Test conditions

The combustion chamber was placed in a fume cupboard according to standard.

Date of test

September 10, 2002.