



REPORT

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Handled by, department

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Burning rate according to Motor Vehicle Safety Standard no.302 (1 appendix)

Product

According to the client:

Cellular rubber tube called "EPDM Cellular rubber" with material no 42-7101. The product have a nominal density of 0.40 g/cm³.

Client

Trelleborg Sealing Profils AB, Värnamo, 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 on April 19, 2010 at SP Fire Technology.

Test results

The test results are given in appendix 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.

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Classification criteria

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).

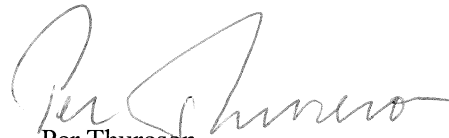
S4.3 (b) If a material stops burning before it has burned for 60 seconds from the start of timing, and has not burned more than 2 inches from the first measuring point where timing started, it shall be considered to meet the burn rate requirement of S4.3

Assessment

The tested sample of the product called "EPDM Cellular Rubber" meets the fire technical requirements according to FMVSS 302.

**SP Technical Research Institute of Sweden
Fire Technology - Fire Dynamics**

Magnus Sturesson
Technical Officer



Per Thureson
Technical Manager

Appendix**1 Test results**

**Test results – FMVSS 302****Product**

According to the client:

Cellular rubber tube called “EPDM Cellular rubber” with material no 42-7101. The product have a nominal density of 0.40 g/cm³.

Observations made during fire test

Test no	1	2	3	4	5
Sample dimension, mm					
length	356	356	356	356	356
width	60	60	60	60	60
thickness	3.1	3.1	3.1	3.1	3.1
Burnt distance, mm	254	254	254	254	254
Burning time, s	309	286	280	347	310
Burning rate, mm/min	49	53	54	44	49

Note

The material direction of the tested samples is not known.

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

May 6, 2010.