

*W*arrington **FIRE** *research*

Test Report
WARRES No. 135429
Federal Motor Vehicle Safety Standard No. 302
Flammability Of Interior Materials -
Passenger Cars, Multi-Purpose Passenger
Vehicles, Trucks And Buses
Sponsored By
Acourete

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Purpose Of Test

To determine the flammability of the material when it is tested in accordance with Federal Motor Vehicle Safety Standard No. 302, Flammability of Interior Materials - Passenger Cars, Multi-purpose Passenger Vehicles, Trucks and Buses.

Description Of Test Specimens

The description of the specimens given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

The specimens comprised 'Acourete Fiber (colour reference 'White', a polypropylene fibre product having two identical faces, a thickness of 8mm and a weight of 600g/m².

The specimens were supplied by the sponsor. Warrington Fire Research Centre was not involved in any selection or sampling procedure.

Conditioning Of Specimens

The specimens were received on the 20th October 2003.

Prior to the test the specimens were conditioned for at least 24 hours in an atmosphere having a temperature of 70°F and a relative humidity of 50%.

Date Of Test

The test was performed on the 24th October 2003.

Test Procedure

The specimens were tested with one face downwards to the test flame, in accordance with the test procedure specified in the Standard, the gas supplied to the Bunsen burner being natural gas. This report should be read in conjunction with FMVSS No. 302.

The burn rate for each of the specimens was calculated using the formula:

$$B = 60 D/T$$

where

B = Burn rate in inches per minutes

D Length of the flame travels in inches, and

T = Time in seconds for the flame to travel D inches

Test Results

The following results were obtained for each of the specimens tested:

Specimen No.	Length of Flame Travel (inches)	Time to Travel D inches (seconds)	Burn rate (inches per minute)
1	Nil	Nil	Nil
2	Nil	Nil	Nil
3	Nil	Nil	Nil

Conclusions

Clause S4.3 of FMVSS No. 302 specifies that a material "shall not burn, or transmit a flame front across its surface, at a rate of more than 4 inches per minute. However, 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 point where timing has started, it shall be considered to meet this requirement". The material, as tested, therefore meets the above requirements.

Validity

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices. and if required may endorse the test report.

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Responsible Officer



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Technical Officer
Reaction to Fire Testing

Approved



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