

PLASKOLITE

Federal Motor Vehicle Safety Standard 302 Flammability of Interior Materials

FMVSS Standard No. 302: Flammability of Interior Materials

This standard specifies burn resistance requirements for materials used in the occupant compartments of motor vehicles. The purpose of the standard is to reduce deaths and injuries to motor vehicle occupants caused by vehicle fires, especially those originating in the interior of the vehicle from sources such as matches or cigarettes.

Application:

The standard applies to passenger cars, multipurpose passenger vehicles, trucks, and buses.

Test Procedure:

The test is conducted inside a burn chamber where the test specimen is mounted horizontally. A 4" by 14" specimen is subjected to a 1.5" high gas flame from a Bunsen burner held below the specimen. The sample is exposed to the flame for 15 seconds. If ignition and flame propagation occurs, the burn distance and time to burn over the distance is measured and recorded. Burn rate is reported in inches/minute.

Passing Criteria:

Material shall not burn, nor transmit a flame front across its surface at a rate of more than 4 inches per minute. Additionally, if a material stops burning before it has burned for 1 minute from the start of timing, and has not burned for more than 2 inches, it shall be considered to meet the burn rate requirement of the standard. Other categories of behavior also deemed to comply with the regulations include: material does not ignite or material self-extinguishes.

Polycarbonate has very good heat resistance and is inherently flame resistant. Testing polycarbonate to the FMVSS 302 flame test typically results in the material not igniting and thus has a burn rate of 0.0 in./min.

FMVSS Standard No. 302 APPROVED PRODUCTS:

TUFFAK AR
TUFFAK FI
TUFFAK SK1

TUFFAK Lumen XT (0.060 & 0.118")
TUFFAK GP
TUFFAK TG