



3.8 TENSILE STRENGTH, min
(ASTM F 39, except rate of extension
shall be 25.4 mm/min)

Original	470 psi (3.2 MPa)
After 5 h at 260°C	270 psi (1.9 MPa)
After 24 h water immersion	178 psi (1.2 MPa)

3.9 WEIGHT
(SAE J 315b)

Original	0.25-0.29 lb/ft ² (1.24-1.44 kg/m ²)
After 5 h at 260°C, Change, max	-11%
After 24 h water immersion Change, max	+57%

3.10 STIFFNESS
(SAE J 949, 51 mm span)

Original, max	10.2 x 10 ⁵ psi (7.0 GPa)
After 5 h at 260°C, max	8.4 x 10 ⁵ psi (5.8 GPa)
After 24 h water immersion, min	2.5 x 10 ⁵ psi (1.7 GPa)

3.11 FLAMMABILITY

In order to comply with Federal Motor Vehicle Safety Standard No. 302, the materials, portions of components, and composites shall not burn, or transmit a flame across its surface, at a rate of more than 4 in (101 mm) per min. To demonstrate compliance, the sample size and method of testing shall be in accordance with FLTM BN 24-2.

3.12 PERFORMANCE - ENVIRONMENTAL AGING

All materials, portions of components, and composites defined by this specification that have not been treated, modified or reformulated and exceed a max burn rate of 3.0 in (76 mm) per min as specified by the Flammability Lot Sampling Plan of FLTM BN 24-2, must be evaluated for permanency of the materials' flame retardant properties per ESB-M25P3-A according to the accelerated environmental aging requirements applicable to the basic material category of this particular specification.

Any material, portions of components, and composites defined by this specification that have been treated, modified or reformulated to conform to Flammability Lot Sampling Plan of FLTM BN 24-2, regardless of max burn rate, must be evaluated for both permanency of materials' flame retardant properties and changes in mechanical, chemical and physical properties per ESB-M25P3-A applicable to the basic materials category of this particular specification.

3.13 FLAMMABILITY TEST PROGRAM

Materials, portions of components, and composites governed by this specification must also comply with the requirements of VES-D3AB-11014-AA.

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