

**"Manufacturing with the environment in mind"®**

**EMR1 POLYETHER POLYURETHANE FOAM**

PHYSICAL PROPERTIES

TEST VALUES

	U.S. STANDARD AVERAGE		METRIC AVERAGE	
	MINIMUM	AVERAGE	MINIMUM	AVERAGE
Density	1.50 ± 10 % lbs./ft. <sup>3</sup>		24.03 ± 10 % kg/m <sup>3</sup>	
Tensile Strength	15.0 psi	20.0 psi	103 kPa	138 kPa
Elongation	150%	250%	150%	250%
Tear Resistance	1.30 pli	2.00 pli	228 N/M	350 N/M
Indentation Force Deflection				
25% Deflection	35 lbs./50 in. <sup>2</sup>	45 lbs./50 in. <sup>2</sup>	156 N/323cm <sup>2</sup>	200 N/323cm <sup>2</sup>
65% Deflection	70 lbs./50 in. <sup>2</sup>	90 lbs./50 in. <sup>2</sup>	311 N/323cm <sup>2</sup>	400 N/323cm <sup>2</sup>
Retention of Tensile Strength after 5 hours, 120°C, Steam Autoclave	Min. 70%			

Flammability Characteristics: §

- Meets the requirements of S4.3 of Federal Motor Vehicle Safety Standard No. 302.‡

Features:

- This product contains additives to retard microbial growth and degradation.
- Meets the Requirements of RoHS through June 2013 Revision of SVHC ( Restriction of Hazardous Substances European Union Directive – 2002/95/EC)
- Compliant with European union REACH (Registration, Evaluation and Authorization of Chemical Substances - EC1907/2006)
- This product meets the requirements of General Motors specification GM2101M type 1, Ford specification ESB-M2D304 and Toyota specification TSK6712G-1A.
- Minimum IFD at 20 mm (0.79 in) thickness 23 lbs/50 sq. in.

\* Test Methods : ASTM-D3574-[ latest revision ]. Standard Methods of Testing Flexible Cellular Materials - Slab, Bonded, and Molded Urethane Foam.

‡ FMVSS 302 is a test procedure that specifies the burn resistance requirements for material used in the occupant compartments of motor vehicles.

§ The flammability test(s) described in this specification is/are small scale test procedure(s) performed under controlled laboratory conditions, and is/are not intended herein to reflect the hazards presented by this or any other material under actual fire conditions.