

## Sumitomo Bakelite North America EM 7302 Hardware Grade Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler , Filled/Reinforced Thermoset

### Material Notes:

Long fiberglass reinforced epoxy molding compound which features high strength and toughness for structural components. This compound is designed for applications requiring Mil-M-46069 certification. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-North-America-EM-7302-Hardware-Grade-Epoxy.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-EM-7302-Hardware-Grade-Epoxy.php)

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in <sup>3</sup>	Relative Density; ASTM D792
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Compression Molding; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105	105	ASTM D2583
Tensile Strength at Break	138 MPa	20000 psi	ASTM D638
Flexural Strength	345 MPa	50000 psi	At Rupture; ASTM D790
Flexural Modulus	24.0 GPa	3480 ksi	ASTM D790
Compressive Strength	255 MPa	37000 psi	ASTM D695
Izod Impact, Notched	16.0 J/cm	30.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.67 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E-831
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.420 W/m-K	2.91 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$	ASTM C-518
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 250 \text{ Å}^\circ\text{C}$	$\geq 482 \text{ Å}^\circ\text{F}$	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.8	5.8	Dry; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	12.8 kV/mm	325 kV/in	60Hz, Step-by-Step, wet; ASTM D149
Dissipation Factor	0.017	0.017	Dry; ASTM D150

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Arc Resistance	120 sec	120 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black, Natural	
Form	Coarse Flake - 1/2" Chop	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer	

## Contact Songhan Plastic Technology Co.,Ltd.

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