

## Master Bond EP112FLAO-1 Toughened, Two component, Heat Curing Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

Master Bond EP112FLAO-1 is a toughened two component, high performance epoxy resin system featuring very good temperature resistance, fine thermal conductivity and electrical insulation values with sound dimensional stability. This system passes NASA low outgassing testing. The mix ratio is 100:80 by weight. After mixing EP112FLAO-1 has a very long open time of a few days but requires oven curing. A typical cure schedule is 2-3 hours at 250°F followed by 5-8 hours at 300°F with a 2 hour post cure at 350°F, although, a number of variations are possible. Also EP112FLAO-1 is ideal for potting and encapsulation because of its lower viscosity and its advantageous flow properties.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP112FLAO-1-Toughened-Two-component-Heat-Curing-Epoxy.php](http://www.lookpolymers.com/polymer_Master-Bond-EP112FLAO-1-Toughened-Two-component-Heat-Curing-Epoxy.php)

Physical Properties	Metric	English	Comments
Viscosity	25000 - 60000 cP	25000 - 60000 cP	Mixed, thixotropic

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 85	>= 85	
Tensile Strength	>= 75.8 MPa @Temperature 23.9 °C	>= 11000 psi @Temperature 75.0 °F	
Compressive Strength	>= 138 MPa	>= 20000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 - 30.0 µm/m-°C	13.9 - 16.7 µin/in-°F	
Thermal Conductivity	1.30 - 1.44 W/m-K	9.00 - 10.0 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 3e+11 ohm-cm @Temperature 150 °C	>= 3e+11 ohm-cm @Temperature 302 °F	
Volume Resistivity	>= 3e+12 ohm-cm @Temperature 100 °C	>= 3e+12 ohm-cm @Temperature 212 °F	
	>= 3e+14 ohm-cm	>= 3e+14 ohm-cm	

Electrical Properties	@Temperature 25.0 °C Metric	@Temperature 77.0 °F English	Comments
Dielectric Constant	4.3	4.3	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
Dissipation Factor	0.31	0.31	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	unopened containers

## Contact Songhan Plastic Technology Co.,Ltd.

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