

Master Bond EP112 Low Viscosity Heat Curing Cycloaliphatic Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Master Bond Polymer System EP112 is a solventless, low viscosity two component cycloaliphatic epoxy resin system which is specifically designed for high performance outdoor and indoor electrical & electronic structural applications. Additional desirable performance qualities are high thermal and dimensional stability, very good thermal shock and vibration resistance and excellent adhesion to metals and a variety of other substrates including glass fibers, ceramics and many plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP112-Low-Viscosity-Heat-Curing-Cycloaliphatic-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	200 - 250 cP	200 - 250 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	93	93	
Tensile Strength	35.9 MPa	5200 psi	
	@Temperature 149 °C	@Temperature 300 °F	
	70.3 MPa	10200 psi	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Elongation at Break	2.4 %	2.4 %	
	@Temperature 75.0 °C	@Temperature 167 °F	
	6.9 %	6.9 %	
	@Temperature 300 °C	@Temperature 572 °F	
Tensile Modulus	1.57 GPa	228 ksi	
	@Temperature 149 °C	@Temperature 300 °F	
	3.07 GPa	445 ksi	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Strength	112.0 MPa	16250 psi	
Compressive Strength	154 MPa	22300 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 °C	500 °F	
Heat Distortion Temperature	193 °C	380 °F	

Thermal Properties	Metric	English	Comments
Shrinkage	0.25 - 1.2 %	0.25 - 1.2 %	Cure shrinkage

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+15 ohm-cm	1.80e+15 ohm-cm	
	@Temperature 300 °C	@Temperature 572 °F	
Surface Resistance	1.50e+16 ohm-cm	1.50e+16 ohm-cm	
	@Temperature 75.0 °C	@Temperature 167 °F	
Dielectric Constant	2.80e+14 ohm	2.80e+14 ohm	
	5.00e+14 ohm	5.00e+14 ohm	
Dielectric Strength	2.95	2.95	
	@Frequency 60.0 Hz, Temperature 149 °C	@Frequency 60.0 Hz, Temperature 300 °F	
Dissipation Factor	2.96	2.96	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
Arc Resistance	>= 17.3 kV/mm	>= 440 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Track Resistance	0.0030	0.0030	
	@Frequency 60.0 Hz, Temperature 149 °C	@Frequency 60.0 Hz, Temperature 300 °F	
Weight Loss	0.0060	0.0060	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
Weight Loss	>= 150 sec	>= 150 sec	Dry; ASTM D495
Weight Loss	>= 1.20e+6 sec	>= 1.20e+6 sec	Wet, 2.5 KV; ASTM D2303

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	unopened containers

Descriptive Properties	Value	Comments
Weight Loss	0.0006	24 hrs at 350°F

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China