Master Bond EP39MHT Two Component, Room Temperature Curing Epoxy Resin System

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced

Material Notes:

Master Bond Polymer System EP39MHT is a low viscosity, two component, epoxy resin system for high performance potting, encapsulation, sealing and bonding. It cures readily at ambient temperatures to an exceptionally tough and thermally stable thermosetting polymer featuring outstanding electrical insulation properties and remarkably high resistance to thermal shocks and mechanical vibration. EP39MHT also features inertness upon exposure to water and a wide range of chemicals plus capability for sustained service at temperatures up to as high as 450°F.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Master-Bond-EP39MHT-Two-Component-Room-Temperature-Curing-Epoxy-Resin-System.php

Physical Properties	Metric	English	Comments
Viscosity	2000 - 3000 cP	2000 - 3000 cP	mixed

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 51.7 MPa	>= 7500 psi	
Flexural Strength	>= 62.1 MPa	>= 9000 psi	
Compressive Strength	>= 68.9 MPa	>= 10000 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.8 @Frequency 1000 Hz	3.8 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	2880 - 4320 min	48.0 - 72.0 hour	ambient temperatures
	120 - 180 min @Temperature 93.3 °C	2.00 - 3.00 hour @Temperature 200 °F	
Pot Life	45 - 75 min	45 - 75 min	100 gram mass

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

Descriptive Properties	Value	Comments
Chemical Resistance	10% Nitric acid	3.42% wt change, 120 days immersion at 75°F
	10% sodium hydroxide	1.48 wt change, 120 days immersion at 75°F
	30% sulfuric acid	1.79% wt change, 120 days immersion at 75°F
	Ethanol	0.51 wt change, 120 days immersion at 75°F
	Toluene	0.64 wt change, 120 days immersion at 75°F
	Water resistance	1.45% wt change, 120 days immersion at 75°F
Mixing Ratio (A to B)	1/1	

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