

Master Bond EP30M4LV Chemically Resistant, Low Viscosity Adhesive

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

Material Notes:

Description: Master Bond EP30M4LV is a two component, low viscosity epoxy system for high performance bonding, sealing and encapsulation. This system features a forgiving 100 to 60 mix ratio by weight. It can cure at ambient temperatures or more rapidly at elevated temperatures. However, to optimize its properties it is recommended to add heat when curing. A highly effective cure schedule is overnight at room temperature followed by a few hours at 150-200°F. EP30M4LV resists water, acids, bases, fuels and oils, along with many strong solvents. Some of the potent chemicals it can resist include Skydrol, xylene, 70% sulfuric acid, 98% sulfuric acid, 50% sodium hydroxide and bleach. This compound is 100% reactive and does not contain any solvents or other volatiles. EP30M4LV offers excellent adhesion to both similar and dissimilar substrates including metals, glass, ceramics and many plastics. It is also noteworthy for its superior electrical insulation properties. It has a low viscosity and excellent flow, along with lower exotherm, which can be used for a variety of moderately sized potting and encapsulation applications. EP30M4LV is serviceable over the wide temperature range of -80°F to +250°F. The color of Part A is clear and Part B is amber. Master Bond Polymer System EP30M4LV is widely used in the aerospace, OEM, electronic, electrical and electro-optic industries. Product Advantages: Non-critical mix ratio: 100 to 60 by weight. Low viscosity, good flow; well suited for potting and encapsulation. Superior chemical resistance. Outstanding electrical insulation properties. High bond strength to a wide variety of substrates. Excellent physical strength properties. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP30M4LV-Chemically-Resistant-Low-Viscosity-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	350 - 700 cP	350 - 700 cP	Part B
	10000 - 14000 cP	10000 - 14000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75 - 85	75 - 85	
Tensile Strength at Break	>= 41.4 MPa	>= 6000 psi	
Tensile Modulus	1.72 - 2.07 GPa	250 - 300 ksi	
Compressive Strength	>= 55.2 MPa	>= 8000 psi	
Shear Strength	>= 13.8 MPa	>= 2000 psi	Bond, Al to Al

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 55.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	27.8 - 30.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Maximum Service Temperature, Air	121 $^{\circ}\text{C}$	250 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-62.2 $^{\circ}\text{C}$	-80.0 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{14}$ ohm-cm	$\geq 1.00 \times 10^{14}$ ohm-cm	
Dielectric Constant	3.65	3.65	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Processing Properties	Metric	English	Comments
Cure Time	180 - 240 min	3.00 - 4.00 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	1440 - 2880 min	24.0 - 48.0 hour	
	@Temperature 93.3 °C	@Temperature 200 °F	
Pot Life	75 - 120 min	75 - 120 min	100 gram batch
Shelf Life	12.0 Month	12.0 Month	in original unopened container
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	100:60	by weight

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