

Master Bond EP30LV-1 Ultra Low Viscosity, Two Part Epoxy System

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

Material Notes:

Description: Master Bond Polymer System EP30LV-1 is an ultra low viscosity, two component epoxy system for high performance bonding, coating, sealing, potting and encapsulation. It readily cures at room temperature or more rapidly at elevated temperatures, and has a five to one mix ratio by weight. This adhesive is 100% reactive and does not contain any solvents or diluents. EP30LV-1 has outstanding physical strength properties along with excellent electrical insulation characteristics. This highly dimensionally stable system has very low shrinkage after cure, less than 0.001 in./in. EP30LV-1 possesses very good optical clarity along with superior light transmission when compared to many other epoxies. This system bonds well to a variety of substrates including metals, glass, and ceramics, as well as many plastics and rubber materials. EP30LV-1 forms high strength, rigid bonds that resist chemicals including water, oil, acids, bases and many solvents. Its low viscosity enables this system to be used for special gap filling applications where space is limited. Master Bond Polymer System EP30LV-1 is widely used in electronic, electrical, optical, chemical and related industries. Product Advantages: Convenient mixing: easy to use mix ratio—five to one by weight Easy application: only contact pressure required while curing; adhesive spreads readily Versatile cure schedules: ambient temperature cures or faster at higher temperatures Good ability to fill smaller gaps High bond strength to a wide variety of substratesKey Features Very low viscosity Outstanding optical clarity Exceptional physical strength Electrically insulative Dimensionally stable Resistant to a wide variety of chemicalsInformation provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP30LV-1-Ultra-Low-Viscosity-Two-Part-Epoxy-System.php

Physical Properties	Metric	English	Comments
Viscosity	280 - 500 cP	280 - 500 cP	Part B
	200 - 600 cP	200 - 600 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength at Break	>= 65.5 MPa	>= 9500 psi	
Tensile Modulus	>= 2.76 GPa	>= 400 ksi	
Shear Strength	>= 20.7 MPa	>= 3000 psi	Bond, Al to Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	



Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
	3.35	3.35	
Dielectric Constant	@Frequency 1000 Hz, Temperature 25.0 °C	@Frequency 1000 Hz, Temperature 77.0 °F	
	3.55	3.55	
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
Dielectric Strength	>= 17.3 kV/mm	>= 440 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.0050	0.0050	
Dissipation Factor	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
	0.0060	0.0060	
	@Frequency 1000 Hz, Temperature 25.0 °C	@Frequency 1000 Hz, Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 93.3 °C	@Temperature 200 °F	
	1440 - 2880 min	24.0 - 48.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	40 - 60 min	40 - 60 min	100 gram batch
Shelf Life	12.0 Month	12.0 Month	in unopened container
	@Temperature 23.9 °C	@Temperature 75.0 °F	m unopeneu containei

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	5:1	by weight

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