

Master Bond EP33ND Epoxy Paste Resists Harsh Chemicals

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

Material Notes:

Description: Master Bond EP33ND is a two part, room temperature curing epoxy system used for bonding, sealing and coating featuring high temperature resistance, good dimensional stability and very good chemical resistance. This paste consistency system is also much easier to machine compared to most other epoxies. It has a 100 to 70 mix ratio by weight and a very convenient one to one ratio by volume. EP33ND cures readily at room temperature or more rapidly at elevated temperatures. To optimize its properties, the recommended cure schedule is overnight at room temperature followed by a post cure at 150-200°F for 2-3 hours. After curing, this system has a high temperature resistance, serviceable up to 450°F. It resists a range of chemicals including water, oils, fuels and many acids and bases. EP33ND bonds well to a wide variety of substrates including metal, glass, ceramics and many rubbers and plastics. It is a reasonably good electrical insulator. EP33ND is 100% reactive and does not contain any diluents or solvents. The color of Part A is gray, Part B is amber. It is widely used in aerospace, electronic, electrical and specialty OEM type applications. Product Advantages: Convenient mixing: one to one ratio by volume. Easy application: contact pressure only required for cure; adhesive spreads evenly and smoothly. High temperature resistance up to 450°F. Excellent chemical resistance. Outstanding dimensional stability. Readily machinable. Good adhesion to a wide variety of substrates. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP33ND-Epoxy-Paste-Resists-Harsh-Chemicals.php

Physical Properties	Metric	English	Comments
Viscosity	400000 - 600000 cP	400000 - 600000 cP	Part B

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85 - 90	85 - 90	
Tensile Strength at Break	>= 55.2 MPa	>= 8000 psi	
Tensile Modulus	3.45 GPa	500 ksi	
Shear Strength	>= 13.8 MPa	>= 2000 psi	Bond, Al to Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+12 ohm-cm	>= 1.00e+12 ohm-cm	

Processing Properties	Metric	English	Comments

Processing Properties	60.0 - 120 min Metric	1.00 - 2.00 hour English	Comments
	@Temperature 93.3 °C	@Temperature 200 °F	
	2880 - 4320 min	48.0 - 72.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °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)	1:1	by volume
	100:70	by weight

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