Master Bond EP21ARHTND Two component epoxy adhesive, sealant, coating and encapsulating system

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

Material Notes:

Product Description: Master Bond EP21ARHTND is a two component epoxy resin system for high performance bonding, sealing and coating. It has a convenient 100 to 50 mix ratio by weight and is formulated to cure at ambient temperatures or more quickly at elevated temperatures. It has resistance to a wide array of chemicals, particularly to acids (a more detailed list appears below). It is resistant to sulfuric and hydrochloric acids. EP21ARHTND is 100% reactive and contains no solvents or diluents. It has very low linear shrinkage upon cure. Also, it has outstanding physical properties and electrical insulation values. EP21ARHTND can be used as an adhesive, sealant, coating, potting or encapsulating material. EP21ARHTND is especially useful for coating tanks and other vessels that may contain acids. It is serviceable over the wide temperature range of -60°F to +400°F. It adheres well to a wide variety of substrates including metals, glass, ceramics and many rubbers and plastics. EP21ARHTND is a smooth paste and is considered a non-drip type system. Parts A and B are amber. This epoxy compound is widely used in aerospace, electronic, electrical, chemical processing applications and in other applications where chemical resistance to acids is needed and a non-drip viscosity is helpful. Product Advantages: Smooth paste; contains no solvents or diluents Versatile cure schedules; ambient temperature cures or fast elevated temperature cures High bonding strength to both similar and dissimilar substrates Wide temperature service capability from -60°F to +400°F Good electrical insulator. Low viscosity. Ideal for potting and encapsulation Outstanding chemical resistance, particularly to acidsInformation provided by MasterBond®

Order this product through the following link:
http://www.lookpolymers.com/polymer_Master-Bond-EP21ARHTND-Two-component-epoxy-adhesive-sealant-coating-and-encapsulating-system.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength at Break	>= 62.1 MPa @Temperature 23.9 °C	>= 9000 psi @Temperature 75.0 °F	
Shear Strength	17.2 MPa	2500 psi	Al/Al, Tensile lap

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 - 45.0 µm/m-°C	22.2 - 25.0 µin/in-°F	
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.8 @Frequency 60.0 Hz,	3.8 @Frequency 60.0 Hz,	

Electrical Properties	Metric Temperature 25.0 °C	English Temperature 77.0 °F	Comments
Dielectric Strength	17.3 kV/mm @Thickness 3.17 mm	440 kV/in @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min @Temperature 93.3 °C	2.00 - 3.00 hour @Temperature 200 °F	
	120 - 180 min @Temperature 93.3 °C	2.00 - 3.00 hour @Temperature 200 °F	Overnight at 75°F followed by
	1440 - 2880 min @Temperature 22.2 °C	24.0 - 48.0 hour @Temperature 72.0 °F	
Pot Life	30 - 50 min	30 - 50 min	100 gram mass
Shelf Life	12.0 Month @Temperature 23.9 °C	12.0 Month @Temperature 75.0 °F	in original, unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	100:50	by weight

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