Master Bond EP21LVSP6 Two component epoxy for bonding, sealing, coating and encapsulating

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

Material Notes:

Product Description: Master Bond EP21LVSP6 is a two component epoxy compound for high performance bonding, coating, sealing and encapsulating. It is formulated to cure at room temperature or more rapidly at elevated temperatures. It offers a very convenient one to one mix ratio, by weight or volume. EP21LVSP6 is particularly well conceived for specialty applications where the combination of a long open time, low viscosity and excellent physical properties are all vital to an application. The system also has very good chemical resistance to water, oil, fuel, acids and bases. EP21LVSP6 bonds well to a variety of substrates, including metals, composites, glass, ceramics, rubbers and plastics. It has very good physical strength properties as well as being a good electrical insulator. It has a service temperature range of -60°F to +250°F. The color of Part A is clear and Part B is amber clear. This system can be used in aerospace, electronic, electrical, optical and other specialty applications where high performance properties combined with a long pot life and low viscosity are desirable. As one would expect with this kind of system, it has very low exotherm and can be used for large castings. Product Advantages: Convenient mixing: non-critical equal weight or volume ratio Low viscosity for ease of application Exceptionally long open time High bonding strength to a wide variety of substrates Magnificent electrical insulation properties Little exotherm; suitable for large castingsInformation provided by MasterBond®

Order this product through the following link:
http://www.lookpolymers.com/polymer_Master-Bond-EP21LVSP6-Two-component-epoxy-for-bonding-sealing-coating-and-encapsulating.php

Physical Properties	Metric	English	Comments
Viscosity	1500 - 3000 cP	1500 - 3000 cP	Part A
	5000 - 8000 cP	5000 - 8000 cP	Part B

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 70	>= 70	
Tensile Strength at Break	>= 48.3 MPa @Temperature 23.9 °C	>= 7000 psi @Temperature 75.0 °F	
Shear Strength	>= 17.2 MPa	>= 2500 psi	Al/Al, Tensile lap

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 55.0 µm/m-°C	27.8 - 30.6 µin/in-°F	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.8 @Frequency 60.0 Hz, Temperature 25.0 °C	2.8 @Frequency 60.0 Hz, Temperature 77.0 °F	
Dielectric Strength	17.7 kV/mm @Thickness 3.17 mm	450 kV/in @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Cure Time	4320 - 14400 min @Temperature 93.3 °C	72.0 - 240 hour @Temperature 200 °F	
	4320 - 18000 min @Temperature 23.9 °C	72.0 - 300 hour @Temperature 75.0 °F	
Pot Life	3.0 - 5.0 min	3.0 - 5.0 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)	1:1	by weight or volume

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