

Master Bond EP21LVMed Two Component, Low Viscosity USP Class VI Epoxy

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

Material Notes:

Master Bond EP21LVMed is a two component, low viscosity epoxy resin system for high performance bonding, sealing, coating, encapsulating and casting. It is formulated to cure readily at room temperature or more quickly at elevated temperatures. To optimize the system's properties and to ensure biocompatibility, a highly recommended cure schedule is overnight at room temperature followed by 2-3 hours at 150-200°F.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21LVMed-Two-Component-Low-Viscosity-USP-Class-VI-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	10000 - 14000 cP	10000 - 14000 cP	Part A
	11000 - 15000 cP	11000 - 15000 cP	Part B

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 70	>= 70	
Tensile Strength	>= 51.7 MPa	>= 7500 psi	
Tensile Modulus	2.07 - 2.41 GPa	300 - 350 ksi	
Adhesive Bond Strength	>= 19.3 MPa	>= 2800 psi	shear, Al/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	-53.9 $^\circ\text{C}$	-65.0 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Dielectric Constant	2.79	2.79	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	>= 17.3 kV/mm	>= 440 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
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Processing Properties	120 - 180 min Metric	2.00 - 3.00 hour English	Comments
	@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	60 - 75 min	60 - 75 min	100 grams
Shelf Life	6.00 Month	6.00 Month	in original unopened containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

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

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