

Master Bond EP21LV35Med Two Component, Flexible USP Class VI Epoxy System

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

Material Notes:

Master Bond Polymer System EP21LV3/5Med is a two part, low viscosity epoxy resin system for high performance bonding, sealing, coating, encapsulation and casting that cures flexible. It cures readily at room temperature and more quickly at elevated temperatures. It has a forgiving 3 to 5 mix ratio by weight or volume. EP21LV3/5Med produces tough, high strength, durable bonds which hold up very well to thermal cycling and resist many chemicals including cold sterilants, water, oils, fuels, acids, bases and salts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21LV35Med-Two-Component-Flexible-USP-Class-VI-Epoxy-System.php

Physical Properties	Metric	English	Comments
Viscosity	8000 - 9000 cP	8000 - 9000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength	>= 42.7 MPa	>= 6200 psi	
Elongation at Break	>= 23 %	>= 23 %	
Tensile Modulus	1.93 GPa	280 ksi	
Adhesive Bond Strength	>= 13.2 MPa	>= 1920 psi	shear, Al/Al, after 30 days water immersion
	>= 13.8 MPa	>= 2000 psi	shear, Al/Al
Peel Strength	>= 1.23 kN/m	>= 7.00 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	36.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Maximum Service Temperature, Air	121 $^\circ\text{C}$	250 $^\circ\text{F}$	
Minimum Service Temperature, Air	-62.2 $^\circ\text{C}$	-80.0 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.15	3.15	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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	60 - 85 min	60 - 85 min	200 gram mass
Shelf Life	6.00 Month	6.00 Month	in unopened containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	3:5	

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