

Master Bond EP62-1Med USP Class VI Two Component Epoxy Resin System

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

Material Notes:

Master Bond EP62-1Med is a two component epoxy system that has an exceptionally long working life at ambient temperatures and cures rapidly at moderately elevated temperatures. It has a 100 to 10 mix ratio by weight. The pot life of 100 grams is greater than 12 hours.

Typical cure schedules range from 4-6 hours at 60-70°C, 20-40 minutes at 80-100°C or 10 minutes at 125°C. The cured epoxy resin exhibits remarkably high thermal stability with a glass transition temperature exceeding 170°C. EP62-1Med meets USP Class VI specifications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP62-1Med-USP-Class-VI-Two-Component-Epoxy-Resin-System.php

Physical Properties	Metric	English	Comments
Viscosity	100 - 1000 cP	100 - 1000 cP	Part B
	4000 - 8000 cP	4000 - 8000 cP	Mixed
	10000 - 14000 cP	10000 - 14000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 80	>= 80	
Tensile Strength	>= 58.6 MPa	>= 8500 psi	
Elongation at Break	<= 2.0 %	<= 2.0 %	
Tensile Modulus	3.45 - 3.79 GPa	500 - 550 ksi	
Shear Strength	>= 15.9 MPa	>= 2300 psi	Tensile lap, Al/Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	
Glass Transition Temp, Tg	>= 170 °C	>= 338 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.25	3.25	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Processing Properties	Metric	English	Comments
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Processing Properties	10.0 min Metric	0.167 hour English	Comments
	@Temperature 125 °C	@Temperature 257 °F	
	18.0 - 40.2 min	0.300 - 0.670 hour	
	@Temperature 80.0 - 100 °C	@Temperature 176 - 212 °F	
	240 - 360 min	4.00 - 6.00 hour	
	@Temperature 60.0 - 70.0 °C	@Temperature 140 - 158 °F	
Pot Life	>= 720 min	>= 720 min	100 gm mass
Shelf Life	6.00 Month	6.00 Month	in original unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	100:10	

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