

Master Bond Ep46HT-2 Two Component, Heat Resistant Epoxy System

Category : Polymer , Thermoset , Epoxy , Epoxy, Cast, Unreinforced , Epoxy, High Temperature

Material Notes:

Master Bond Polymer System EP46HT-2 is a two component epoxy system for bonding, sealing and casting applications where resistance to temperatures from -100°F to +500°F is required. It is 100% reactive and does not contain any solvents or diluents. It is formulated to cure rapidly and requires a cure temperature of 250°F or more. The glass transition temperature is extremely high, exceeding 220°C. The cured system features exceptional physical and mechanical properties, while exhibiting superior chemical resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-Ep46HT-2-Two-Component-Heat-Resistant-Epoxy-System.php

Physical Properties	Metric	English	Comments
Viscosity	100 - 200 cP	100 - 200 cP	Part B
	12000 - 20000 cP	12000 - 20000 cP	Mixed system
	60000 - 110000 cP	60000 - 110000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength	>= 68.9 MPa	>= 10000 psi	
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	
Tensile Modulus	>= 2.76 GPa	>= 400 ksi	
Compressive Strength	>= 138 MPa	>= 20000 psi	
Shear Strength	>= 17.2 MPa	>= 2500 psi	Tensile, Al/Al

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	260 °C	500 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	>= 220 °C	>= 428 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	
Dielectric Strength	17.7 kV/mm	450 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	Post cure (recommended for optimal properties)
	@Temperature 177 - 204 °C	@Temperature 350 - 400 °F	
	180 - 240 min	3.00 - 4.00 hour	
	@Temperature 121 - 149 °C	@Temperature 250 - 300 °F	
Pot Life	>= 1440 min	>= 1440 min	100 gram batch
Shelf Life	12.0 Month	12.0 Month	in original unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	100:35	Parts A to B

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