

Master Bond EP30ANHT Two Part, Electrically Isolating Epoxy Adhesive

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

Material Notes:

Description: Master Bond Polymer System EP30ANHT is a two part epoxy system with terrific thermal conductivity, while maintaining electrical insulation. One noteworthy property is its wide service temperature range of -60°F to 400°F. Other salient characteristics include dimensional stability, outstanding physical strength and good flowability. This latter property enables it to be readily used for potting and encapsulation applications. EP30ANHT is also brushable and can be used as an adhesive, coating and sealant. In this regard, it bonds well to metals, many plastics, ceramics and glass. It resists a variety of chemicals including water, oils, fuels, acids and bases. EP30ANHT has a very low coefficient of thermal expansion (CTE). It is formulated to cure at room temperature or more rapidly at elevated temperatures and has a ten to one (10:1) mix ratio by weight. The color of Part A is gray and Part B is clear. Master Bond EP30ANHT is widely used in the electronic, electrical, computer, chemical, electro-optical and related industries where maximum heat transfer and superior electrical isolation are required. **Product Advantages:** Easy application: adhesive spreads or pours evenly and smoothly. Versatile cure schedules: ambient temperature cures or fast elevated temperature cures. High bond strength to a wide variety of substrates; very good adhesive properties. Accomplished electrical insulator with impressively high capacity for heat transfer. Great dimensional stability, high compressive strength and low CTE. Low viscosity with excellent flowability; ideal for potting and encapsulation. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP30ANHT-Two-Part-Electrically-Isolating-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	280 - 500 cP	280 - 500 cP	Part B
	60000 - 110000 cP	60000 - 110000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	
Tensile Strength at Break	>= 41.4 MPa	>= 6000 psi	
Compressive Strength	>= 117 MPa	>= 17000 psi	
Shear Strength	>= 6.21 MPa	>= 900 psi	Tensile, Al to Al

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 - 25.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	12.2 - 13.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	3.17 - 3.60 W/m-K	22.0 - 25.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	4.6	4.6	
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
Dielectric Strength	>= 15.7 kV/mm	>= 400 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 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	40 - 60 min	40 - 60 min	100 gram batch
Shelf Life	6.00 Month	6.00 Month	in original unopened container
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	10:1	by weight

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China