

Master Bond Supreme 11ANHT Fast Curing Epoxy Paste System

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

Material Notes:

Description: Master Bond Polymer System SUPREME 11ANHT is a two component epoxy resin system for high performance bonding and sealing formulated to cure at room temperature or more rapidly at elevated temperatures with a convenient one-to-one (1:1) mix ratio by weight or volume. Its most features include high thermal conductivity, excellent electrical insulation properties, high temperature resistance up to 350°F as well as superior bond strength. SUPREME 11ANHT is a paste that can be applied without sagging or dripping even on vertical surfaces. As a toughened system, it is well suited to applications involving thermal cycling. Its chemical resistance profile includes water, oil and many solvents. It has excellent adhesion to most metals, ceramics, glass and vulcanized rubbers as well as many plastics. SUPREME 11ANHT is also unique in that the bond strength is high in both shear and peel modes. Both part A and B are colored off white. Master Bond SUPREME 11ANHT is widely used in the electronic, electrical, computer, metalworking, appliance, automotive and chemical industries where high bond strength and superior heat transfer properties are required. Product Advantages: Easy application; adhesive spreads evenly and smoothly. Versatile cure schedules; ambient temperature cures or faster elevated temperature cures as required. High bond strength to a wide variety of substrates; excellent adhesive properties. High thermal conductivity with exceptional electrical insulation properties Toughened system; well suited for bonding dissimilar substrates. Good physical strength characteristics; especially high shear & peel strengths. Thick paste; non-drip type system. Outstanding resistance to a wide range of chemicals. Thermally stable up to 350°F with good thermal cycling properties. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-Supreme-11ANHT-Fast-Curing-Epoxy-Paste-System.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 1.0 %	<= 1.0 %	24 hr immersion

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 6.21 MPa	>= 900 psi	Bond, Al to Al, after 30 days water immersion
	>= 6.89 MPa	>= 1000 psi	Bond, Al to Al, RT cure
Peel Strength	0.877 - 1.75 kN/m	5.00 - 10.0 pli	T-peel, Al to Al

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 - 45.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	22.2 - 25.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	3.17 - 3.46 W/m-K	22.0 - 24.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	177 °C	350 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	70.0 - 75.0 °C	158 - 167 °F	

Electrical Properties	Metric	English	Comments
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	30 - 40 min	30 - 40 min	100 gram mass
Shelf Life	6.00 Month	6.00 Month	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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