

Master Bond EP30ND Non-Drip, Dimensionally Stable Epoxy Adhesive

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

Material Notes:

Description: Master Bond Polymer System EP30ND is a high viscosity, two component epoxy adhesive/sealant with a paste consistency. It will cure at room temperature or more rapidly at elevated temperatures and has convenient non-critical 4 to 1 mix ratio by weight or volume. It is 100% reactive and does not contain any diluents or solvents. It is especially useful for applications requiring high bond strength, good chemical resistance along with minimal flow when applied or curing. It is also utilized in many repair applications particularly where machining of cured polymer is desirable. Linear shrinkage is exceptionally low - 0.0003 inches/in. Master Bond Polymer System EP30ND produces high strength bonds that exhibit excellent dimensional stability. Its service temperature range is -60°F to 250°F. It has excellent adhesion to a wide variety of substrates including metals, glass, ceramics, and many plastics. The cured system is a good electrical insulator. The color of part A is amber and the color of part B clear. It is also available in many colors and is especially popular in black. Master Bond Polymer System EP30ND is particularly useful in repair applications involving pumps, pipes, tanks, valves, etc. Product Advantages: Convenient mixing: easy-to-use mix ratio, four (4) to one (1) by weight or volume. Versatile cure schedules: ambient temperature or fast, elevated temperature cures as required. High bonding strength to similar and dissimilar substrates. Good durability and chemical resistance. Product can be machined or sanded for maximum surface smoothness as desired. Non-drip type system. Easy to apply. Spreads evenly and smoothly. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP30ND-Non-Drip-Dimensionally-Stable-Epoxy-Adhesive.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 62.1 MPa	>= 9000 psi	
Compressive Strength	>= 96.5 MPa	>= 14000 psi	
Shear Strength	2.21 MPa	320 psi	Bond, Al to Al

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 - 50.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	25.0 - 27.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Maximum Service Temperature, Air	121 $^{\circ}\text{C}$	250 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-51.1 $^{\circ}\text{C}$	-60.0 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Dielectric Constant	3.5 @Frequency 60.0 Hz, Temperature 25.0 $^{\circ}\text{C}$	3.5 @Frequency 60.0 Hz, Temperature 77.0 $^{\circ}\text{F}$	
Dielectric Strength	17.3 kV/mm	440 kV/in	

Electrical Properties	@Thickness 3.17 mm Metric	@Thickness 0.125 in English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	60.0 - 180 min	1.00 - 3.00 hour	
	@Temperature 93.3 °C	@Temperature 200 °F	
	1440 min	24.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	30 - 35 min	30 - 35 min	100 gram batch
Shelf Life	12.0 Month	12.0 Month	in unopened container
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	4/1	by weight

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