

Master Bond EP21TDCNFL Two Component Nickel Conductive Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy, Electrically Conductive

Material Notes:

Master Bond Polymer System EP21TDCNFL is a two component, nickel filled, electrically conductive system for high performance bonding and sealing formulated to cure at room temperature or more rapidly at elevated temperatures. Its most noteworthy properties are its high flexibility and elongation. Its exceptional flexibility makes EP21TDCNFL particularly useful in bonding dissimilar substrates that are being thermally cycled and shocked. Additionally, its high flexibility combined with its inherently low shrinkage enables the cured system to exert very little mechanical stress on sensitive components and substrates.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21TDCNFL-Two-Component-Nickel-Conductive-Epoxy-Adhesive.php

Mechanical Properties	Metric	English	Comments
Elongation at Break	>= 50 %	>= 50 %	
Adhesive Bond Strength	>= 5.52 MPa	>= 800 psi	shear, Al/Al, after 30 days water immersion
	>= 5.86 MPa	>= 850 psi	shear, Al/Al
Peel Strength	>= 3.51 kN/m	>= 20.0 pli	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.44 W/m-K	10.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-269 °C	-452 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.0 - 10 ohm-cm	5.0 - 10 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	1080 - 1440 min	18.0 - 24.0 hour	85% maximum strength developed within
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	60 - 75 min	60 - 75 min	200 gram mass
	75 - 90 min	75 - 90 min	100 gram mass
Shelf Life	3.00 - 6.00 Month	3.00 - 6.00 Month	in unopened containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	1/1	
Viscosity	thixotropic	

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