

Master Bond EP21TDCS Med Two Component, Silver Conductive USP Class VI Epoxy

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

Material Notes:

Master Bond Polymer System EP21TDCS MED is a two component, silver filled, electrically conductive adhesive/sealant that meets USP Class VI specifications for medical applications. The high strength bonds are remarkably adaptable to thermal cycling and resistant to chemicals including water, oil and most organic solvents, over the exceptionally wide temperature range of 4°K to +275 °F enabling it to be serviceable even in cryogenic applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21TDCS-Med-Two-Component-Silver-Conductive-USP-Class-VI-Epoxy.php

Mechanical Properties	Metric	English	Comments
Elongation at Break	>= 5.0 %	>= 5.0 %	
Adhesive Bond Strength	>= 5.52 MPa	>= 800 psi	shear, Al/Al, after 30 days water immersion
	>= 5.86 MPa	>= 850 psi	shear, Al/Al

Thermal Properties	Metric	English	Comments
Thermal Conductivity	3.75 W/m-K	26.0 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	<= 0.0010 ohm-cm	<= 0.0010 ohm-cm	

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	50 gram mass
Shelf Life	3.00 - 6.00 Month	3.00 - 6.00 Month	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)		

Descriptive Properties	Value	Comments
Viscosity	smooth paste	

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