

Atom Adhesives AA-DUCT 906 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-DUCT 906 represents the newest technology since the introduction of electrically conductive silver compounds. This unique formulation is based on a silver coated ceramic that results in lower material costs without adversely sacrificing the properties obtained with a pure silver formulation. This concept opens the door to a wide range of applications previously prohibited by the much higher cost of conventional silver conductive. AA-DUCT 906 cures at room temperature or can be accelerated with mild heat to form a tenacious bond between similar and dissimilar substrates such as aluminum, copper, magnesium, steel, bronze nickel, ceramic, glass, phenolic, and G-10 epoxy glass boards. AA-DUCT 906, because of its excellent continuity, has been used extensively in such diversified applications as, microwave EMI and RFI shielding, in the assembly or repair of printed circuit boards, wave guides, electronic modules, flat cable, high frequency shields, connections, and circuitry and as a cold solder. This unique formulation offers ease in handling due to its creamy consistency and versatile application by hand, automatic dispenser, silk-screening, transfer or stamping techniques.

Appearance: Silver
Cure Type: Heat cure or Room Temperature
Benefits: High strength, Perfect bond, EMI & RFI shielding, Cold Solder
Mix Ratio by weight: 100:5/Resin:Hardener
Substrates: Excellent choice aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic and G-10 epoxy glass boards.
Typical Application: microwave EMI and RFI shielding, in the assembly or repair of printed circuit boards, wave guides, electronic modules, flat cable, high frequency shields, connections, and circuitry and as a cold solder.

Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-906-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.60 g/cc	2.60 g/cc	cured
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	cured
Tensile Strength	61.4 MPa	8900 psi	cured
Compressive Strength	94.5 MPa	13700 psi	cured

Thermal Properties	Metric	English	Comments
CTE, linear	19.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	10.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	13.0 W/m-K	90.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	165 °C	329 °F	
Heat Distortion Temperature	165 °C	329 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.0015 ohm-cm	<= 0.0015 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	30.0 min	0.500 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shelf Life	12.0 Month	12.0 Month	uncured

Descriptive Properties	Value	Comments
Viscosity	Paste	uncured

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