

Atom Adhesives AA-DUCT 902LP Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-DUCT 902LP is an epoxy adhesive and coating formulation based on pure silver. This versatile silver formulation offers the maximum continuity of conductivity with an electrical resistivity value of less than 1×10^{-4} ohm-cm. AA-DUCT 902LP is also characterized by a wide operating temperature range from -50 to $+170$ °C. AA-DUCT 902LP is recommended for electronic bonding and sealing applications that require both fine electrical and mechanical properties. Appearance: SilverCure Type: Heat cure or Room Temperature Benefits: High strength Perfect bond Cold solder for heat sensitive components Mix Ratio by weight: 100:6/Resin:Hardener Substrates: Excellent choice aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic and G-10 epoxy glass boards. Typical Application: Electrical, conductive, rmi/efi shielding, circuitry, printed circuit board and electronics repair Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-902LP-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.79 g/cc	2.79 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	cured
Tensile Strength	65.5 MPa	9500 psi	cured
Compressive Strength	96.5 MPa	14000 psi	cured
Shear Strength	64.8 MPa	9400 psi	Lap, cured

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	14.4 W/m-K	100 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	170 °C	338 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	≤ 0.00010 ohm-cm	≤ 0.00010 ohm-cm	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	@Temperature 120 °C	@Temperature 248 °F	
	5.00 min	0.0833 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	180 min	180 min	uncured
Shelf Life	12.0 Month	12.0 Month	uncured

Descriptive Properties	Value	Comments
Viscosity	Paste	uncured

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