

Atom Adhesives AA-DUCT 903 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-DUCT 903 is an epoxy adhesive and coating formulation based on Nickel. This epoxy nickel formulation offers the maximum continuity of conductivity with an electrical resistivity value of less than 3.8×10^{-2} ohm-cm. AA-DUCT 903 is recommended for electronic bonding and sealing applications that require both fine electrical and mechanical properties. AA-DUCT 903 has been used extensively in such diversified applications as microwave EMI & RFI shielding, in the assembly or repair of printed circuit boards, wave guides, electronic modules, flat cable, high frequency shields, connections, circuitry and as a cold solder for high-sensitive components where hot-soldering is impractical. Appearance: Gray Cure Type: Heat cure or Room Temperature Benefits: High strength Perfect bond Cold solder for high-sensitive components 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: 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-903-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.79 g/cc	2.79 g/cc	mixed, 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

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	≤ 0.038 ohm-cm	≤ 0.038 ohm-cm	cured

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	45.0 min	0.750 hour	
	@Temperature 50.0 °C	@Temperature 122 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	60.0 min	60.0 min	uncured
Shelf Life	12.0 Month	12.0 Month	uncured

Descriptive Properties	Value	Comments
Viscosity	Paste	uncured

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China