

Atom Adhesives AA-DUCT N02 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-DUCT N02 is a single component, heat curing, conductive epoxy polymer that was designed for ease in handling. This high performance conductive polymer cures quickly at elevated temperatures making it ideally suited for rapid Processing and assembly. AA-DUCT N02 passes NASA's outgassing testing (ASTM E-595) and is listed in NASA's Outgassing Data for Selecting Spacecraft Materials list. AA-DUCT N02 offers excellent mechanical, electrical, and physical properties at continuous operating Temperatures up To 175°C. This versatile silver conductive adhesive can be used for chip bonding in Micro and electronic hybrid circuit Fabrication. This unique conductive polymer also exhibits outstanding adhesion to a wide variety of substrates with good hot strength at intermittent temperatures up to 325°C. AA-DUCT N02 has also been used in microwave applications for EMI and FRI shielding, for assembly and repair of circuit boards and Electronic component manufacturing. Appearance: Grey Cure Type: Heat cure or Room temperature Mix Ratio by weight: 100:6/Resin:Hardener Benefits: High strength Perfect bond Cold solder for heat sensitive components Wave guides Substrates: Excellent choice for Integrated Circuits, aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic and G-10 epoxy glass boards. Typical Application: Microwave applications for EMI and FRI shielding, for assembly and repair of circuit boards and Electronic component manufacturing. Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-N02-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Outgassing - Total Mass Loss	0.00 %	0.00 %	CVCM
	0.070 %	0.070 %	WVR
	0.25 %	0.25 %	TTML

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	cured

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.46 W/m-K	10.1 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	175 °C	347 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

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

Processing Properties	Metric	English	Comments
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Processing Properties	30.0 min Metric	0.500 hour English	Comments
	@Temperature 175 °C	@Temperature 347 °F	
	60.0 min	1.00 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	120 min	2.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Viscosity	Soft paste	

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