

Atom Adhesives AA-DUCT CG2 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-DUCT CG2 is a single component epoxy, formulated with 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 CG2 Formulated with Silver coated ceramic power combined with organic binders and solvents to produce electrically conductive paths, films or patterns over non-conductive substrates. AA-DUCT CG2 formulation produces electrically conductive paths on a wide variety of surfaces including plastics, rubber, cloth, thermoplastic, paper, wood and many others. AA-DUCT CG2 designed for use in diversified applications as microwave EMI & RFI shielding, in the assembly or repair of printed circuit boards, waveguides, electronic modules, flat cable, static shielding, connections, and circuitry. Appearance: Silver Coated ceramic Cure Type: Heat cure Benefits: High strength Perfect bond EMI & RFI shielding Wave guides Substrates: Excellent choice for the Integrated Circuits, aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic and G-10 epoxy glass boards. Catalyst: Anhydride Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-CG2-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	6800 cP	6800 cP	uncured

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	4.14 GPa	600 ksi	
Poissons Ratio	0.35	0.35	
Shear Strength	13.8 MPa	2000 psi	cured
Adhesive Bond Strength	10.3 MPa	1500 psi	cured

Thermal Properties	Metric	English	Comments
CTE, linear	57.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	31.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	cured
Specific Heat Capacity	0.300 J/g $\cdot^\circ\text{C}$	0.0717 BTU/lb $\cdot^\circ\text{F}$	cured
Thermal Conductivity	4.18 W/m-K	29.0 BTU-in/hr-ft $^2\cdot^\circ\text{F}$	cured

Component Elements Properties	Metric	English	Comments
Silver, Ag	65 - 75 %	65 - 75 %	ceramic

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	≤ 0.10 ohm	≤ 0.10 ohm	cured

Processing Properties	Metric	English	Comments
Cure Time	42.0 min	0.700 hour	
	@Temperature 200 °C	@Temperature 392 °F	
	90.0 min	1.50 hour	
	@Temperature 180 °C	@Temperature 356 °F	
	150 min	2.50 hour	
	@Temperature 160 °C	@Temperature 320 °F	
Pot Life	259200 min	259200 min	uncured
Shelf Life	6.00 Month	6.00 Month	uncured

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