

## Atom Adhesives AA-DUCT AD1 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

AA-DUCT AD1 is a single component epoxy, formulated with pure silver power combined with organic binders and solvents to produce electrically conductive paths, films or patterns over non-conductive substrates. AA-DUCT AD1 shows slight settling when stored for a long period of time, no caking and will re disperse to a smooth homogeneous state. AA-DUCT AD1 formulation produces electrically conductive paths on a wide variety of surfaces including plastics, rubber, cloth, thermoplastic, paper, wood and many others. AA-DUCT AD1 designed for use in diversified applications as microwave EMI & RFI shielding, in the assembly or repair of printed circuit boards, wave-guides, electronic modules, flat cable, static shielding, connections, and circuitry. Appearance: SilverCure Type: Heat cure Benefits: High strength Perfect bond EMI & RFI shielding 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 EMI & RFI shielding, in the assembly or repair of printed circuit boards, wave-guides, electronic modules, flat cable, static shielding, connections, and circuitry. Catalyst: Anhydride Information provided by Atom Adhesives

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Atom-Adhesives-AA-DUCT-AD1-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-AD1-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.35 g/cc	2.35 g/cc	
Viscosity	6800 cP	6800 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Modulus of Elasticity	4.14 GPa	600 ksi	
Poissons Ratio	0.35	0.35	
Shear Strength	13.8 MPa	2000 psi	Lap
Adhesive Bond Strength	10.3 MPa	1500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{F}$	
Specific Heat Capacity	0.300 J/g $\cdot\text{C}$	0.0717 BTU/lb $\cdot\text{F}$	
Thermal Conductivity	41.8 W/m-K	290 BTU-in/hr-ft $^2\cdot\text{F}$	
Maximum Service Temperature, Air	170 $^{\circ}\text{C}$	338 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-45.0 $^{\circ}\text{C}$	-49.0 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Silver, Ag	70 - 72 %	70 - 72 %	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	10 - 12 ohm	10 - 12 ohm	Sheet

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
	388800 min	388800 min	uncured, refrigerated
Shelf Life	6.00 Month	6.00 Month	uncured

## Contact Songhan Plastic Technology Co.,Ltd.

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