

## Atom Adhesives AA-DUCT 2924 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

AA-DUCT 2924 is a two part electrically conductive composition developed for low shrinkage; low resistivity bonding applications where good electrical and physical properties over a wide temperature range (up to 190°C) are required. AA-DUCT 2924 is smooth paste formulation of refined pure silver and epoxy is free of solvents and copper or carbon additives. It can be used -- after REQUIRED high temperature cure cycle -- for the assembly, manufacture and repair of electronic modules, printed circuits, integrated circuits, electrical contacts, capacitors, wave guides and flat cables, for high-frequency RF shielding, and for applications where a "hot" soldering iron is impractical. When cured AA-DUCT 2924 is a hard, dimensionally stable, conductive material which is resistant to water, weathering, gases and vapors, lubricants, fuels, alcohol, and also to those salts, salt solutions, mild acids and alkalis, and other organic and inorganic compounds with which silver itself is compatible. Appearance: Silver Cure Type: Heat cure Mix Ratio by weight: 100:5/Resin:Hardener Benefits: High strength Perfect bond Substrates: Excellent choice aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic and G-10 epoxy glass boards. Information provided by Atom Adhesives

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Atom-Adhesives-AA-DUCT-2924-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-2924-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.66 g/cc	2.66 g/cc	mixed, uncured
Solids Content	100 %	100 %	reactive, uncured
Viscosity	2500 cP	2500 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	cured
Adhesive Bond Strength	8.76 MPa	1270 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	27.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	190 °C	374 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	92.0 °C	198 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\leq 0.00030 \text{ ohm}\cdot\text{cm}$	$\leq 0.00030 \text{ ohm}\cdot\text{cm}$	cured

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	120 min	2.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	180 min	180 min	uncured
Shelf Life	12.0 Month	12.0 Month	uncured

## Contact Songhan Plastic Technology Co.,Ltd.

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