

## Atom Adhesives AA-DUCT 904 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

AA-DUCT 904 is a single component, heat curing, conductive epoxy that was designed for ease in handling. This high performance conductive epoxy cures quickly at elevated temperatures making it ideally suited for rapid processing and assembly. AA-DUCT 904 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 opto-electronic hybrid circuit fabrication. AA-DUCT 904 has also been used in microwave applications for EMI and FRI shielding, for assembly and repair of circuit boards and electronic component manufacturing. AA-DUCT 904 is a smooth, soft paste that can be applied by hand application, automatic dispensers, screen-printing, transfer or stamping techniques. It is available in both a lower and higher viscosity grade for use in a variety of dispensing equipment and application techniques. Appearance: SilverCure Type: Heat cure or Room temperature Benefits: High strengthExcellent mechanical, electrical properties Substrates: Excellent choice for Integrated Circuits, aluminum, copper, magnesium, steel, bronze, nickel, ceramic, glass, phenolic and G-10 epoxy glass boardsInformation provided by Atom Adhesives

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Atom-Adhesives-AA-DUCT-904-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-904-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	3.60 g/cc	3.60 g/cc	
Viscosity	200000 cP	200000 cP	uncured
Outgassing - Total Mass Loss	0.010 %	0.010 %	CVCM
	0.070 %	0.070 %	WVR
	0.38 %	0.38 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	cured

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	2.32 W/m-K	16.1 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	175 °C	347 °F	
	325 °C	617 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Volume Resistivity Electrical Properties	$\leq 0.0010$ ohm-cm Metric	$\leq 0.0010$ ohm-cm English	Comments
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Cure Time	30.0 min	0.500 hour	
	@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	uncured

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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