

## **Atom Adhesives AA-DUCT 905 Epoxy Adhesive**

Category: Polymer, Thermoset, Epoxy, Epoxy Adhesive

## **Material Notes:**

AA-DUCT 905 is a single component epoxy, formulated with pure silver powder combined with organic binders and solvents to produce electrically conductive paths, films or patterns over non-conductive substrates. AA-DUCT 905 shows slight settling when stored for a long period of time, no caking and will re disperse to a smooth homogeneous state. AA-DUCT 905 formulation produces electrically conductive paths on a wide variety of surfaces including plastics, rubber, cloth, thermoplastic, paper, wood and many others. AA-DUCT 905 is designed for use in diversified applications such 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. This epoxy is designed for screening and micro product adhesion applications with the best dispensing capabilities of up to 30 gauge / 0.01"/ 0.255mm.Appearance: SilverCure Type: Heat cure Benefits:High strengthPerfect bondEMI&RFI shieldingWave guidesThe best dispensing capabilities of up to 30 gauge/0.01"/0.255mm Substrates: Integrated circuits, aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic and G-10 epoxy glass boards.Catalyst: AnhydrideInformation provided by Atom Adhesives

## Order this product through the following link:

http://www.lookpolymers.com/polymer\_Atom-Adhesives-AA-DUCT-905-Epoxy-Adhesive.php

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

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

Thermal Properties	Metric	English	Comments
CTE, linear	3.00 µm/m-°C	1.67 μin/in-°F	
Specific Heat Capacity	0.300 J/g-°C	0.0717 BTU/lb-°F	
Thermal Conductivity	0.602 W/m-K	4.18 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	170 °C	338 °F	
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	



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

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.0010 ohm-cm	<= 0.0010 ohm-cm	
Surface Resistivity per Square	1.00e+7 - 1.20e+8 ohm	1.00e+7 - 1.20e+8 ohm	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	
	@Temperature 175 °C	@Temperature 347 °F	
	10.0 min	0.167 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	15.0 min	0.250 hour	
	@Temperature 120 °C	@Temperature 248 °F	
Pot Life	6.00 min	6.00 min	uncured
Shelf Life	6.00 Month	6.00 Month	uncured

## **Contact Songhan Plastic Technology Co.,Ltd.**

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