

Atom Adhesives AA-DUCT 2919 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-DUCT 2919 is a non-bleeding, electrically conductive, silver-filled epoxy formulation recommended for electronic bonding, coating, and sealing applications that require good flexibility coupled with good electrical and mechanical properties. This two-part, thixotropic adhesive of refined pure silver and epoxy resin components is free of solvents and copper or carbon additives. It develops resilient, electrically and thermally conducting bonds and coatings between many different and dissimilar materials such as metals, ceramics, glass and plastic insulates. AA-DUCT 2919 cures at room temperature and can be used as a flexible "cold-solder" for heat-sensitive components where hot-soldering is impractical. It also can be used for the assembly and repair of electrical modules, flexible circuits, membrane switches, wave guides, flat cable and high frequency shields. Appearance: Silver Cure Type: Heat cure or Room temperature Mix Ratio by weight: 90:100/Resin:Hardener Benefits: Free of solvents and copper or carbon additives Coatings between many different and dissimilar materials Substrates: Metal, Ceramics, Glass and Plastic Typical Application: Assembly and repair of electrical modules, flexible circuits, membrane switches, wave guides, flat cable and high frequency shields Electronic bonding, coating and sealing applications Can be used as a flexible "cold-solder" Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-2919-Epoxy-Adhesive.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Adhesive Bond Strength	0.621 MPa	90.0 psi	Lap shear, alum to alum
	@Temperature 25.0 °C, Time 86400 sec	@Temperature 77.0 °F, Time 24.0 hour	
	1.17 MPa	170 psi	Lap shear, alum to alum
	@Temperature 65.0 °C, Time 14400 sec	@Temperature 149 °F, Time 4.00 hour	

Thermal Properties	Metric	English	Comments
CTE, linear	34.9 µm/m-°C	19.4 µin/in-°F	
Thermal Conductivity	1.60 W/m-K	11.1 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	4.00 °C	39.2 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00011 ohm-cm	0.00011 ohm-cm	cured 4 hrs @ 65°C
			cured 24 hrs @ 25°C

Electrical Properties	0.0016 ohm-cm Metric	0.0016 ohm-cm English	Comments
Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Thixotropic Index	4.9	

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