

Atom Adhesives AA-DUCT 2979 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-DUCT 2979 is a fast curing one part epoxy adhesive with superior electrical conductivity and bonding capability. AA-DUCT 2979 has been shown to retain their properties through hundreds of hours of rapid temperature cycling and has also high impact absorption and stress resistance. These qualities make it an excellent choice for a number of electronic applications especially in "under the hood" and other harsh operating environments. AA-DUCT 2979 has a shelf life of at least 6 months when stored at -40°C. It contains no volatile, harmful solvents or lead, and conforms to all of the requirements of the solder replacement market. Appearance: Silver Cure Type: Heat cure Mix Ratio by weight: 100:5/Resin:Hardener Benefits: High strength Excellent mechanical, electrical properties Substrates: Excellent choice for Integrated Circuits, aluminum, copper, magnesium, steel, bronze, nickel, ceramic, glass, phenolic and G-10 epoxy glass boards. Typical Application: Applications where high impact absorption and stress resistance is required Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-DUCT-2979-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.50 g/cc	3.50 g/cc	uncured
Viscosity	65000 cP	65000 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	cured
Shear Strength	63.4 MPa	9200 psi	uncured
Adhesive Bond Strength	12.1 MPa	1750 psi	uncured

Thermal Properties	Metric	English	Comments
CTE, linear	57.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	31.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	uncured
Thermal Conductivity	0.901 W/m-K	6.25 BTU-in/hr-ft ² -°F	uncured
Maximum Service Temperature, Air	175 °C	347 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Glass Transition Temp, Tg	45.0 °C	113 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00030 ohm-cm	0.00030 ohm-cm	cured

Processing Properties	Metric	English	Comments
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Processing Properties	10.0 min Metric	0.167 hour English	Comments
	@Temperature 150 °C	@Temperature 302 °F	
	60.0 min	1.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	
Pot Life	259200 min	259200 min	
Shelf Life	6.00 Month	6.00 Month	uncured

Descriptive Properties	Value	Comments
Thixotropic Index	3.4	

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