Atom Adhesives AA-CARB 61 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-CARB 61 is an epoxy adhesive and coating formulation based on conductive carbon. AA-CARB 61 is recommended for electronic bonding and sealing applications that require both fine electrical and mechanical properties. AA-CARB 61 cures at room temperature or can be accelerated with mild heat to form a tenacious bond between similar and dissimilar substrates.Appearance: BlackCure Type: Heat cure or Room temperature Benefits:Continuity of conductivityHigh adhesionWide operating temperature range Substrates: Aluminum, copper, magnesium, steel, bronze, nickel, ceramic, glass, phenolic, G-10 epoxy glass boards Typical Application: Electronic bonding and sealing applications that require both fine electrical and mechanical properties.Information provided by Atom Adhesives

Order this product through the following link:
http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-CARB-61-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	mixed, uncured
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Strength	65.5 MPa	9500 psi	
Compressive Strength	89.6 MPa	13000 psi	uncured

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 µm/m-°C	8.33 µin/in-°F	
Thermal Conductivity	1.22 W/m-K	8.50 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	170 °C	338 °F	
Heat Distortion Temperature	95.0 °C	203 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 40 ohm-cm	<= 40 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 100 °C	0.250 hour @Temperature 212 °F	

Processing Properties	Metric	English	Comments
	@Temperature 60.0 °C	@Temperature 140 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	30.0 min	30.0 min	100g, uncured
Shelf Life	12.0 Month	12.0 Month	uncured

Descriptive Properties	Value	Comments
Viscosity	Paste	uncured

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