

Atom Adhesives AA-BOND 2156 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND 2156 is a thixotropic (smooth paste) thermally conductive epoxy system. It is used for staking heat sinks, transistors, diodes, resistor, integrated circuits and other heat-sensitive components to printed circuit boards. AA-BOND 2156 is two parts fast cure adhesive develops strong bond to many materials, and its coefficient of thermal expansion provides a good match for the application. Appearance: Tan
Cure Type: Heat cure or Room Temperature
Benefits: Fast Cure Strong Durable High impact bonds at room temperature that improves heat
Mix Ratio by weight: 100:23/Resin:Hardener
Substrates: Bonds readily to itself and to metals, silica, steatite, alumina, sapphire and other ceramics, glass, plastics and to many other materials
Typical Application: Fiber optic bundles, potting glass fibers and fiber optic connectors
Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-2156-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.294 g/cc	2.294 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured
Viscosity	11000 - 13000 cP	11000 - 13000 cP	Uncured, after Mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	
Shear Strength	23.4 MPa	3400 psi	Lap, Alum to Alum
Adhesive Bond Strength	23.4 MPa	3400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	25.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	14.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	0.840 W/m-K	5.83 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	33.0 °C	91.4 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	33.0 °C	91.4 °F	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	180 min	3.00 hour	

Processing Properties	Metric @ Temperature 65.0 °C	English @ Temperature 149 °F	Comments
	1440 min	24.0 hour	
	@ Temperature 25.0 °C	@ Temperature 77.0 °F	
Pot Life	5.00 min	5.00 min	uncured
Shelf Life	12.0 Month	12.0 Month	

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