

Atom Adhesives AA-BOND F162 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND F162 is a thixotropic electrical insulating epoxy adhesive system with low vapor pressure and outgassing characteristics. AA-BOND F162 was specifically developed for fiber optic, laser, photonic and electronic applications requiring excellent electrical insulation in combination with effective thermal dissipation from heat-producing components. AA-BOND F162 is two-part epoxy compound develops strong, durable, stable, high impact thermally conductive bonds at room temperature, and adheres readily to itself, and to metals, many plastics, silica, steatite, alumina, sapphire and other ceramics, glass, and to many other materials. AA-BOND F162 provides excellent resistance to salt solutions, mild acids and alkalis and many other chemicals including petroleum solvents, lubricating oils and alcohol. Appearance: Red Cure Type: Heat cure or Room Temperature Benefits: Smooth paste Fiber optic Laser Photonic and electronic applications Good electrical insulation Mix Ratio by weight: 100:10/Resin:Hardener Substrates: Metals, Many plastics, Glass, and other materials Typical Application: ALL types of fiber-optic connectors as well as LED displays, lenses and other optical components. Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-F162-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.29 g/cc	2.29 g/cc	uncured
Solids Content	100 %	100 %	uncured
Viscosity	54000 cP	54000 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	cured

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.878 W/m-K	6.09 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.10e+15 ohm-cm	2.10e+15 ohm-cm	
Dielectric Constant	5.9	5.9	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	

Electrical Properties	0.010 Metric	0.010 English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	120 - 240 min	2.00 - 4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Thixotropic Index	2	

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