

Atom Adhesives AA-BOND F125 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND F125 is a 8 minutes gelling epoxy recommended for use in fiber optic connectors, optical and industrial bonding applications.

AA-BOND F125 is clear, two part system is easily mixed and used at room temperature. Fiber optic connectors can be polished in as little as 15 to 20 minutes for piston free assurance. The high bond strength of AA-BOND F125 to glass, plastics, ceramics, metals and masonry allows it to be used in a wide array of applications including lens bonding, connector backfills, construction, component assembly and maintenance repair. AA-BOND F125 is low shrinkage epoxy, develops significant properties 1 hour after mixing. However, an extended cure of 4-6 hours at 25°C is required for fully matured bonds. Appearance: Clear Cure Type: Heat cure or Room Temperature Benefits: Low viscosity Fast cure Low Shrinkage Mix Ratio by weight: 100:93/Resin:Hardener Typical Application: Fiber optic assembly, multimode and single mode connectors, small potting and sealing applications Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-F125-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	uncured
Solids Content	100 %	100 %	uncured
Viscosity	9000 cP	9000 cP	Resin, uncured
	14000 cP	14000 cP	Hardener, uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Adhesive Bond Strength	20.0 MPa	2900 psi	alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	59.9 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Maximum Service Temperature, Air	115 $^{\circ}\text{C}$	239 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-60.0 $^{\circ}\text{C}$	-76.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	40.0 $^{\circ}\text{C}$	104 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+11 ohm-cm	5.00e+11 ohm-cm	
Dielectric Constant	4.8	4.8	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	5.00 min	5.00 min	uncured

Descriptive Properties	Value	Comments
Thixotropic Index	1	

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