

Atom Adhesives AA-BOND F112 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND F112 is an impact resistant, fiber-optic adhesive. AA-BOND F112 is two-part, low viscosity epoxy has the distinct advantage of remaining below 3000 cps for a minimum of 40 minutes. AA-BOND F112 allows more connectors to be produced from one mix. Low stress, AA-BOND F112 is an excellent choice for multimode connectors and single mode connectors where excessive curing temperatures may cause cracking. AA-BOND F112 can be cured at room temperature overnight or as fast as 15 minutes at 90°C. The blue color facilitates easy polishing and its cured properties prevent pistoning. This product is a 100% solid system that can be used for small potting and sealing applications where resistance to thermal shock and impact are required. Appearance: Dark Blue Cure Type: Heat cure or Room Temperature Benefits: Low viscosity Thermal shock and impact resistant Mix Ratio by weight: 100:30/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-F112-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	uncured
Water Absorption	0.070 %	0.070 %	
Viscosity	1800 cP	1800 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Shear Strength	17.2 MPa	2500 psi	Lap, Alum to Alum
	@Temperature 25.0 °C, Time 86400 sec	@Temperature 77.0 °F, Time 24.0 hour	
	20.7 MPa	3000 psi	
	@Temperature 65.0 °C, Time 3600 sec	@Temperature 149 °F, Time 1.00 hour	Lap, Alum to Alum
	29.6 MPa	4300 psi	Lap, Alum to Alum
	@Temperature 90.0 °C, Time 900 sec	@Temperature 194 °F, Time 0.250 hour	

Thermal Properties	Metric	English	Comments
CTE, linear	61.9 µm/m-°C	34.4 µin/in-°F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	102 °C	210 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.51	1.51	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 90.0 °C	@Temperature 194 °F	
	60.0 min	1.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30.0 min	30.0 min	uncured

Descriptive Properties	Value	Comments
Thixotropic Index	1	

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