

Atom Adhesives AA-BOND F110 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND F110 is a rigid, optically clear adhesive with a very low viscosity. AA-BOND F110 is room temperature system an excellent choice for thin bond-line assembly and repair applications of prisms, lenses and other optic components. And its high strength makes this epoxy ideal for structural applications. AA-BOND F110 exhibits excellent wetting and wicking capabilities which allows it to adhere strongly to glass, ceramics, metals and most rigid plastics. Appearance: Transparent, Clear Cure Type: Heat cure or Room Temperature Benefits: High strength Perfect insulative properties Good resistance to salt solutions, mold acids and Alkalis and many other chemicals Mix Ratio by weight: 100:100/Resin:Hardener Substrates: Excellent choice for thin bond-line assembly and repair applications of prisms, lenses and other optic components. Typical Application: Exhibits excellent wetting and wicking capabilities which allows it to adhere strongly to glass, ceramics, metals and most rigid plastics. Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-F110-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured
Volatile Organic Compounds (VOC) Content	39.1 g/l	39.1 g/l	uncured
Viscosity	310 cP	310 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Shear Strength	14.8 MPa	2150 psi	Lap, Alum to Alum
	@Temperature 25.0 °C, Time 86400 sec	@Temperature 77.0 °F, Time 24.0 hour	
	17.9 MPa	2600 psi	
	@Temperature 65.0 °C, Time 3600 sec	@Temperature 149 °F, Time 1.00 hour	Lap, Alum to Alum
	20.7 MPa	3000 psi	Lap, Alum to Alum
	@Temperature 65.0 °C, Time 14400 sec	@Temperature 149 °F, Time 4.00 hour	

Thermal Properties	Metric	English	Comments
CTE, linear	59.9 µm/m-°C	33.3 µin/in-°F	
Maximum Service Temperature, Air	130 °C	266 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	90.0 °C	194 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.54	1.54	
Transmission, Visible	97 %	97 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	
Dielectric Constant	4.3	4.3	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 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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