

Atom Adhesives AA-BOND F123BK Epoxy Adhesive

Category: Polymer, Thermoset, Epoxy, Epoxy Adhesive

Material Notes:

AA-BOND F123BK is a low viscosity, two-component epoxy formulation that signals both proper mixing and curing when bonding fiber optic bundles, potting glass fibers, and/or terminating single or multi-channel fiber optic connectors. It exhibits good wicking, and develops strong, tough, mechanically stable bonds to a wide variety of fiber optic and optical materials that includes most metals, ceramics, glass and many plastics. AA-BOND F123BK has good impact and thermal shock resistance, and yields excellent low stress, pot-and-polish connections which do not piston during cycle tests. It is also resistant to water and weathering, vapors and gases, most petroleum products, and an extended range of organic and inorganic environments. Shorter cures at higher temperatures (e.g. 2 minutes at 120°C or 1 minute at 150°C) are also possible. An additional post-cure of 30 minutes at 150°C is recommended when application temperatures higher than 150°C are anticipated. Appearance: Clear, Green Blue: Mixed; Clear, Light Yellow: Unmixed; Clear, Reddish-Brown: CuredCure Type: Heat cure or Room TemperatureBenefits:Low viscosityFast cureGood impact and thermal shock resistantColor coded Mix Ratio by weight: 100:10/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-F123BK-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	uncured
Viscosity	4000 cP	4000 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Adhesive Bond Strength	20.0 MPa	2900 psi	alum to alum

Thermal Properties	Metric	English	Comments
CTE, linear	63.2 μm/m-°C	35.1 μin/in-°F	
	203 μm/m-°C	113 μin/in-°F	
Glass Transition Temp, Tg	120 °C	248 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.55	1.55	
Transmission, Visible	93 %	93 %	

Electrical Properties	Metric	English	Comments	



Electrical Properties	15 7 kV/mm Metric	400 kW/in English	Comments
Processing Properties	Metric	English	Comments
Como Timo	5.00 min	0.0833 hour	
Cure Time	@Temperature 100 °C	@Temperature 212 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	240 min	240 min	uncured

Descriptive Properties	Value	Comments
Thixotropic Index	1	

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