

Atom Adhesives AA-BOND 2103 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND 2103 is a clear, near transparent, medium viscosity epoxy adhesive formulation developed for rigid laminating, sealing and bonding applications where the combination of good wetting and improved mechanical electrical properties is required. AA-BOND 2103 is two-part liquid epoxy adhesive contains no solvents and is easy to mix, use and apply at room temperature. AA-BOND 2103 develops strong, rigid, high performance bonds to itself and to ceramics, glass and glass fabrics, metals, laminates and other composite materials, forestry and masonry products, and to most rigid plastics. AA-BOND 2103 is an effective electrical insulator, and further provides excellent resistance to weather, galvanic action, vapors, JP4 fuel, gasoline, lubricants and other petroleum products, mild acids and alkalis, salts, and other organic and inorganic compounds. Appearance: Clear, slight haze Cure Type: Heat cure or Room Temperature Benefits: Good wetting Great mechanical properties Great electrical properties Solvent free Easy mix and apply Mix Ratio by weight: 100:25/Resin:Hardener Substrates: Ceramics, glass to glass, fabrics, metals, laminates and other composite materials Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-2103-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Izod Impact, Notched	0.107 J/cm	0.200 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	52.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Maximum Service Temperature, Air	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
Minimum Service Temperature, Air	-60.0 $^\circ\text{C}$	-76.0 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	
Dielectric Constant	4.1	4.1	
	@Frequency 420 Hz	@Frequency 420 Hz	
Dissipation Factor	0.020	0.020	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	20.0 min	20.0 min	uncured

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