

Atom Adhesives AA-BOND 2123 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND 2123 is a versatile steel metal/epoxy adhesive formulation developed for modern industrial repair, casting and bonding applications where a steel-like or cast iron finish is required. AA-BOND 2123 is easy-to-use adhesive system contains no solvents and cures fairly rapidly at room temperature to a hard, low shrinkage solid, which bonds readily to steel, aluminum, and other metals, wood, concrete, glass, ceramics and many plastics. AA-BOND 2123 is tough and durable, resistant to water, mild acids and alkalis, salts and salt solutions, lubricating oils, petroleum solvents, gasoline, jet fuels, alcohol and many other organic and inorganic materials, While it may be attracted to a magnet, it is essentially an electrical insulator which can be readily drilled, cut, sawed and machined with regular metal working tools Typical repair applications: jigs, molds, dies, fixtures, plumbing, automotive, castings, aircraft, ships, marine, salvage. Appearance: Steel Grey Cure Type: Heat cure or Room Temperature Benefits: Casting Jigs Molds Forming Dies Plumbing Repairs Tool and dies patching Automotive repairs Industrial maintenance Mix Ratio by weight: 100:10/Resin:Hardener Substrates: Most metals, ceramic, glass and plastics Typical Application: Modern industrial repair, casting and bonding applications where a steel-like or cast iron finish is required. Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-2123-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.34 g/cc	2.34 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured
Viscosity	32000 cP	32000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	21.1 $\mu\text{in}/\text{in}^{\circ}\text{F}$	
Thermal Conductivity	0.589 W/m-K	4.09 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	135 °C	275 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	110 °C	230 °F	
Shrinkage	0.080 %	0.080 %	

Processing Properties	Metric	English	Comments
	240 min	4.00 hour	

Cure Time Processing Properties	Metric @ Temperature 65.0 °C	English @ Temperature 149 °F	Comments
	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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