

Atom Adhesives AA-SUPERTHERM 195 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-SUPERTHERM 195 is a two component, thermally conductive epoxy system recommended for staking transistors, diodes, resistors, integrated circuits and other heat sensitive components to printed circuit boards. This adhesive develops strong, durable, high impact bonds at room temperature which improve heat transfer while maintaining electrical insulation. AA-SUPERTHERM 195 bonds readily to itself and to metals, silica, alumina, sapphire and other ceramics, glass, plastics and many other materials, because its coefficient of thermal expansion provides a good match for those materials over a fairly wide temperature range. Fully cured AA-SUPERTHERM 195 provides excellent resistance to salt solutions, mild acids and alkalis, and many other chemicals including petroleum solvents, lubricating oils, and alcohol. This adhesive complies with the requirements of NASA Outgassing Specification when tested according to ASTM E-595-90. Appearance: White Cure Type: Heat cure or Room Temperature Benefits: Strong Durable High-impact bonds Fully cured Excellent resistance to many chemicals Mix Ratio by weight: 100:15/Resin:Hardener Substrates: metals, silica, alumina, sapphire and other ceramics, glass, plastics and many other materials Typical Application: Extremely sensitive thermal cooling applications Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-SUPERTHERM-195-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	mixed, uncured
Solids Content	100 %	100 %	uncured
Viscosity	5000 cP	5000 cP	uncured
Outgassing - Total Mass Loss	0.020 %	0.020 %	NASA, CVCM
	@Temperature 65.0 °C, Time 10800 sec	@Temperature 149 °F, Time 3.00 hour	
	0.60 %	0.60 %	NASA, TWL
	@Temperature 65.0 °C, Time 10800 sec	@Temperature 149 °F, Time 3.00 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Adhesive Bond Strength	11.7 MPa	1700 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air			Continuous

Thermal Properties	275 °C Metric	527 °F English	Comments
	375 °C	707 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	54.0 °C	129 °F	

Processing Properties	Metric	English	Comments
Cure Time	120 - 240 min	2.00 - 4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	60.0 min	60.0 min	uncured

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