

Atom Adhesives AA-GREASE 04 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-GREASE 04 is an opaque white heat sink grease compound, which is applied to the base and mounting studs of transistor and diodes to provide a positive heat sink seal, this facilitates heat transfer away from electrical/electronic components and into heat sinks, thereby increasing the overall efficiency and performance of the device. AA-GREASE 04 is silicone material, heavily filled with efficient heat conductive zinc oxide and a binding agent, this combination promotes high thermal conductivity, high temperature stability, and the lowest amount of bleed and evaporation. AA-GREASE 04 thermal compound resists changes in consistency temperatures up to 180°C; function as heat transfer media, durable dielectric insulation, barrier against environmental contaminants and as a stress-relieving shock and vibration absorber over a wide temperature and humidity range. AA-GREASE 04 thermal paste is resistant to ozone and ultraviolet degradation and has good chemical and solvent stability, good interference between the heat producing device and the heat transfer media, and low surface tension that enables them to wet most surfaces. AA-GREASE 04 will not harden, dry, or melt after 1200 hours @ 205°C. Appearance:

WhiteBase Fluid: Dimethyl Polysiloxane Filler: Zinc oxide Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-GREASE-04-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.45 g/cc	2.45 g/cc	

Mechanical Properties	Metric	English	Comments
Penetration	10	10	[mm], worked

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.880 W/m-K	6.11 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	205 °C	401 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.90e+14 ohm-cm	2.90e+14 ohm-cm	ASTM D257
Dielectric Constant	4.4 @Frequency 100 Hz	4.4 @Frequency 100 Hz	ASTM D150
Dielectric Strength	15.4 kV/mm	390 kV/in	ASTM D150
Dissipation Factor	0.0021 @Frequency 100 Hz	0.0021 @Frequency 100 Hz	ASTM D150

Descriptive Properties	Value	Comments
Viscosity	Paste	

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