

Aptek 6550-A/B Epoxy Encapsulant

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced

Material Notes:

High thermal conductivity, microelectronic grade blob-top encapsulant. Ultra high purity. Excellent heat and moisture protection for sensitive chips/circuitry. Premixed frozen syringes available for robotic dispensers. Part A is black. Part B is white. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-6550-AB-Epoxy-Encapsulant.php

Physical Properties	Metric	English	Comments
Viscosity	190000 cP	190000 cP	A Component; Spindle #7; speed 10 rpm; ASTM D1824
	200000 cP	200000 cP	B Component; Spindle #7; speed 10 rpm; ASTM D1824

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	95	95	Cured property; ASTM D2240
Adhesive Bond Strength	12.4 MPa	1800 psi	Al-to-Al Lap Shear; Cured property; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Cured property; alpha 1; Perkin Elmer TMS-2
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
	95.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	52.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Cured property; alpha 2; Perkin Elmer TMS-2
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	1.21 W/m-K	8.41 BTU-in/hr-ft ² - $^{\circ}\text{F}$	COLORA
Glass Transition Temp, Tg	145 $^{\circ}\text{C}$	293 $^{\circ}\text{F}$	Cured property; Perkin Elmer TMS-2
Flash Point	$\geq 125\text{ }^{\circ}\text{C}$	$\geq 257\text{ }^{\circ}\text{F}$	A Component; ASTM D92
	$\geq 125\text{ }^{\circ}\text{C}$	$\geq 257\text{ }^{\circ}\text{F}$	B Component; ASTM D92

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.50e+14 ohm-cm	7.50e+14 ohm-cm	Cured property; ASTM D257

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	15 ppm	15 ppm	Hydrolyzable

Ionic Impurities - K (Potassium) Chemical Properties	5.0 ppm Metric	5.0 ppm English	Hydrolyzable Comments
Ionic Impurities - Cl (Chloride)	15 ppm	15 ppm	Hydrolyzable

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