

Aptek 6103-A/B Epoxy Encapsulant

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

Material Notes:

Optoelectronic grade, reddish black encapsulant for IR LED discreets. Transparent to IR light while blocking out visible light. Part A is deep red. Part B is clear to pale yellow. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-6103-AB-Epoxy-Encapsulant.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	A Component; ASTM D1475
	1.20 g/cc	0.0434 lb/in ³	B Component; ASTM D1475
Brookfield Viscosity	360 cP	360 cP	B Component; Spindle #2; speed 50 rpm; ASTM D1824
	2000 cP	2000 cP	A Component; Spindle #3; speed 10 rpm; ASTM D1824

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	Cured property; ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	Cured property; alpha 1; Perkin Elmer TMS-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	188 µm/m-°C	104 µin/in-°F	Cured property; alpha 2; Perkin Elmer TMS-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	130 °C	266 °F	Cured property; Perkin Elmer TMS-2
Flash Point	>= 150 °C	>= 302 °F	B Component; ASTM D92
	>= 200 °C	>= 392 °F	A Component; ASTM D92

Optical Properties	Metric	English	Comments
Transmission, Visible	0.00 %	0.00 %	opaque; thickness not quantified
IR Transmittance	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+15 ohm-cm	5.00e+15 ohm-cm	Cured property; ASTM D257

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.010	0.010	Cured property; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	115 °C	239 °F	Cure 12 hrs.

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