

Aptek 6109-A/B Epoxy Encapsulant

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

Material Notes:

Optoelectronic grade flexible water clear encapsulant. Higher viscosity/lower Tg version for clear blob-top encapsulation of ceramic substrate devices Part A is blue. 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-6109-AB-Epoxy-Encapsulant.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	A Component; ASTM D1475
	1.20 g/cc	0.0434 lb/in ³	B Component; ASTM D1475
Viscosity	350 cP	350 cP	B Component; Spindle #2; speed 50 rpm; ASTM D1824
	20000 cP	20000 cP	A Component; Spindle #5; speed 10 rpm; ASTM D1824

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	Cured property; ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Cured property; alpha 1; Perkin Elmer TMS-2
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
	225 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	125 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Cured property; alpha 2; Perkin Elmer TMS-2
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	84.0 $^\circ\text{C}$	183 $^\circ\text{F}$	Cured property; Perkin Elmer TMS-2
Flash Point	≥ 150 $^\circ\text{C}$	≥ 302 $^\circ\text{F}$	B Component; ASTM D92
	≥ 200 $^\circ\text{C}$	≥ 392 $^\circ\text{F}$	A Component; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.48	1.48	B Component
	1.538	1.538	Mixed Liquid
	1.57	1.57	A Component

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	$\geq 1.00 \times 10^{14}$ ohm-cm Metric	$\geq 1.00 \times 10^{14}$ ohm-cm English	Cured property; ASTM D257 Comments
Dielectric Constant	3.8 @Frequency 1000 Hz	3.8 @Frequency 1000 Hz	Cured property; ASTM D150
Dissipation Factor	0.015 @Frequency 1000 Hz	0.015 @Frequency 1000 Hz	Cured property; ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	115 °C	239 °F	Cure 8 hrs.

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