

Aptek 6106-A/B Epoxy Encapsulant and/or Potting Compound

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

Material Notes:

Optoelectronic grade encapsulant/potting compound – will not attack/cloud polysulphone casings. Lower Tg version, APTEK 6110-A/B, available for ceramic blob-top applications. Part A is hazy blue. Part B is water clear. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-6106-AB-Epoxy-Encapsulant-andor-Potting-Compound.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	B Component; ASTM D1475
	1.16 g/cc	0.0419 lb/in ³	A Component; ASTM D1475
Viscosity	25 cP	25 cP	B Component; Spindle #1; speed 100 rpm; ASTM D1824
	2000 cP	2000 cP	A Component; Spindle #3; speed 10 rpm; ASTM D1824

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	Cured property; ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	79.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	43.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Cured property; alpha 1; Perkin Elmer TMS-2
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
	175 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	97.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Cured property; alpha 2; Perkin Elmer TMS-2
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	$\geq 135\text{ }^{\circ}\text{C}$	$\geq 275\text{ }^{\circ}\text{F}$	Cured property; Perkin Elmer TMS-2
Flash Point	$\geq 100\text{ }^{\circ}\text{C}$	$\geq 212\text{ }^{\circ}\text{F}$	B Component; ASTM D92
	$\geq 200\text{ }^{\circ}\text{C}$	$\geq 392\text{ }^{\circ}\text{F}$	A Component; ASTM D92

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+15\text{ ohm}\cdot\text{cm}$	$\geq 1.00\text{e}+15\text{ ohm}\cdot\text{cm}$	Cured property; ASTM D257

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