

## Aptek 6108-PMF Epoxy Coating/Encapsulant

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

### Material Notes:

High temperature, rigid, electrical/electronic coating or encapsulant. Provides excellent environmental protection for continuous exposure to 220°C. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aptek-6108-PMF-Epoxy-CoatingEncapsulant.php](http://www.lookpolymers.com/polymer_Aptek-6108-PMF-Epoxy-CoatingEncapsulant.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D1475
Viscosity	2400 cP	2400 cP	Spindle #2; speed 10 rpm; ASTM D1824
Outgassing - Total Mass Loss	0.10 %	0.10 %	Cured property; at 10E-6 torr; ASTM E595
Collected Volatile Condensable Material	0.010 %	0.010 %	Cured property; at 10E-6 torr; ASTM E595

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	Cured property; ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	40.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	Cured property; alpha 1; Perkin Elmer TMS-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	200 $\mu\text{m}/\text{m}\cdot\text{°C}$	111 $\mu\text{in}/\text{in}\cdot\text{°F}$	Cured property; alpha 2; Perkin Elmer TMS-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	220 °C	428 °F	Continuous
Glass Transition Temp, Tg	165 °C	329 °F	Cured property; Perkin Elmer TMS-2
Flash Point	200 °C	392 °F	ASTM D92

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	Cured property; ASTM D257
Dielectric Constant	3.3	3.3	Cured property; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0090	0.0090	Cured property; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	170 °C	338 °F	Gel 1 hr at 100°C to demold parts; Post Cure for 8 hours at 170°C

Descriptive Properties	Value	Comments
Color	Clear Amber	

## Contact Songhan Plastic Technology Co.,Ltd.

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