

## Aptek 6500-PMF Electrically conductive epoxy adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive , Epoxy, Electrically Conductive

### Material Notes:

High purity, low outgassing, electrically conductive adhesive APTEK 6500-PMF is a one component, pre-mixed frozen, 100% solid, silver-filled epoxy adhesive specifically designed for microelectronic die attach applications. High purity resin system for minimum level of ionic contamination to prevent corrosion problems; High cross-link density to maintain stability and minimize outgassing during operational life even in high-vacuum environments and sealed packages; Smooth thixotropic consistency for machine stamping applications; Viscosity can be factory controlled for screening or dispensing applications; Contains no diluents or solvents to minimize formation of voids during cure. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aptek-6500-PMF-Electrically-conductive-epoxy-adhesive.php](http://www.lookpolymers.com/polymer_Aptek-6500-PMF-Electrically-conductive-epoxy-adhesive.php)

Physical Properties	Metric	English	Comments
Density	2.90 g/cc	0.105 lb/in <sup>3</sup>	ASTM D1475
Viscosity	25000 cP	25000 cP	Spindle #5; 10 rpm; ASTM D1824
Outgassing - Total Mass Loss	0.10 %	0.10 %	Cured property at 125°C; at 10E-6 torr; ASTM E595
Collected Volatile Condensable Material	0.0010 %	0.0010 %	Cured property at 125°C; at 10E-6 torr; ASTM E595

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	ASTM D2240
Adhesive Bond Strength	15.2 MPa	2200 psi	Al-to-Al Lap Shear; Cured property; ASTM D1002
	39.3 MPa	5700 psi	Cured property; Die Shear for Ag to Si, 0.07" x 0.07" IC

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	25.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Cured property; alpha 1; Perkin Elmer TMS-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	147 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	81.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Cured property; alpha 2; Perkin Elmer TMS-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	155 °C	311 °F	Cured property; Perkin-Elmer TMS-2
Flash Point	>= 150 °C	>= 302 °F	ASTM D92

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	0.00020 ohm-cm Metric	0.00020 ohm-cm English	Cured property; ASTM D257 Comments
Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Cure 2 hrs
	165 °C	329 °F	Cure 2 hrs

## Contact Songhan Plastic Technology Co.,Ltd.

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