

## EpoxyLite

### Technical Data Sheet

**Product:** EpoxyLite H1100S

**Description:** Low viscosity, single component, clear amber, epoxy resin suitable for use at Class H temperatures.

EpoxyLite H1100S has a very low penetration viscosity and cures to a tough resilient product.

**Application:** Dip, trickle or VPI treatment of motors and transformers.

#### Processing Characteristics:

	Resin	Hardener	Mixture	
<b>Viscosity</b>	400	-	-	<b>mPas @ 25°C</b>
<b>Specific Gravity</b>	1.12	-	-	<b>g / cm<sup>3</sup></b>
<b>Mix Ratio</b>	Single component			<b>p.b.w.</b>
<b>Mix Ratio</b>	Single component			<b>p.b.v.</b>
<b>Gelation Time</b>	8 minutes			<b>@ 165°C</b>
<b>Cure Schedule</b>	Minimum 6 – 8 hrs			<b>@ 140°C</b>
	Minimum 3 – 4 hrs			<b>@ 165°C</b>

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### Cured Properties:

<b>Shore D Hardness:</b>	(DIN 53505)	<b>87 (25°C)</b>
<b>Thermal Class:</b>	(ASTM D2307 / 20000 hrs)	<b>180°C</b>
<b>Glass Transition Temp.</b>	(IEC 1006)	<b>90°C</b>
<b>Tensile Strength:</b>	(ISO 527)	<b>75 N/mm<sup>2</sup></b>
<b>Elongation at Break:</b>	(ISO 527)	<b>5 %</b>
<b>Thermal Coefficient of Expansion:</b>	(DIN 53752)	<b>60.10<sup>-6</sup>K<sup>-1</sup></b>
<b>Thermal Conductivity:</b>	(ISO 8894-1)	<b>0.21 W/mK</b>
<b>UL Recognition:</b>		<b>TI 180</b>
<b>Water Absorption:</b>	(ISO 62)	<b>0.2 % (23°C)</b>
<b>Dielectric Strength:</b>	(IEC 243-1)	<b>190 kV/cm</b>
<b>Dielectric Constant:</b>	(IEC 250)	<b>4.2 20°C</b>
<b>Dissipation Factor:</b>	(IEC 250)	<b>2% 20°C</b>
<b>Volume Resistivity:</b>	(IEC 93)	<b>&gt; 10<sup>15</sup> ohm/cm</b>
<b>Comparative Tracking Index:</b>	(IEC 112)	<b>&gt; 550 Volts</b>

**Storage:** Minimum storage life 12 months in tightly closed containers at temperatures below 25°C.

**Handling:** Refer Material Safety Data Sheet.

**Issue:** 06/06/2005

This information is based on test results believed to be accurate and reliable. Nothing herein however, is to be considered a warranty, either expressed or implied regarding the application and performance of EpoxyLite materials, since the conditions of use are beyond our control.