

EpoxyLite

Technical Data Sheet

Product: EpoxyLite EIP 5650

Description: Two-component, black, filled Epoxy resin suitable for use at Class H temperatures.

EpoxyLite EIP 5650 has been designed to provide an accelerated gel / cure version of EIP 4260 whilst maintaining it's low viscosity for optimum flow and penetration of wound components, low exotherm in large bulk whilst still producing a tough resilient product with good thermal conductivity.

Application: Encapsulating and potting of conventional electric motors, linear motors and transformers. Excellent thermal cycling characteristics ensure service performance in applications requiring large bulk castings.

Processing Characteristics:

	Resin	Hardener	Mixture	
Viscosity	3500 (50°C)	20	2000	mPas @ 25°C
Specific Gravity	1.86	0.96	1.68	g / cm³
Mix Ratio	Resin to Hardener 10 : 1			p.b.w.
Mix Ratio	Resin to Hardener 5.5 : 1			p.b.v.
Gelation Time	180 minutes			@ 25°C
Cure Schedule	24 hours			@ 25°C
	or 3 hours			@ 80°C

EpoxyLite EIP 5650

Cured Properties:

Shore D Hardness:	(DIN 53505)	90 (25°C)
Thermal Class:	(ASTM D2307 / 20000 hrs)	180°C
Glass Transition Temp.	(IEC 1006)	70°C
Tensile Strength:	(ISO 527)	65 N/mm²
Elongation at Break:	(ISO 527)	1.0 %
Thermal Coefficient of Expansion:	(DIN 53752)	70.10⁻⁶K⁻¹
Thermal Conductivity:	(ISO 8894-1)	1.0 W/mK
UL Recognition:	(UL94)	HB (6mm)
Water Absorption:	(ISO 62)	0.15 % (23°C)
Dielectric Strength:	(IEC 243-1)	190 kV/cm
Dielectric Constant:	(IEC 250)	5.2 @ 50 Hz
Dissipation Factor:	(IEC 250)	10% @ 50 Hz
Volume Resistivity:	(IEC 93)	> 10¹³ ohm/cm
Comparative Tracking Index:	(IEC 112)	> 600 Volts

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

Handling: Refer Material Safety Data Sheet.

Issue: 27/07/2004

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.