

Technical Data Sheet

Secondary Insulation
Impregnating Resin

EpoxyLite 6107 Impregnating Resin

Two Component High Temperature Resin

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A member of 

Description

The Epoxylite 6107 is a two component high temperature epoxy resin system. The Part A resin and Part B catalyst are both liquid.

Uses

- Impregnation of armatures, stators and coils
- Impregnation of structural components

Cured Properties

The Epoxylite 6107 has excellent chemical and moisture resistance. It can be exposed to 260 °C for short times.

Catalyst

A catalyst is required to cure this resin. The resin should be mixed 100 parts resin to 100 parts catalyst by weight.

Recommended Cure

6 – 8 hours at 121 °C (250 °F) or 3 hours at 121 °C (250 °F) plus 3 hours at 135 °C (275 °F) after part reaches cure temperature

Features and Benefits

- Two day pot life
- High temperature
- Cures at low temperatures

Application Methods

- Dip and Bake
- Trickle (VPI)
- Roll through

Storage/Shelf Life

This resin should be stored at a 25 °C in a dry controlled environment out of direct sunlight. This material should be suitable for use stored under the conditions in the original sealed containers for twelve (12) months from the date of shipment. Failure to store this product as recommended above may lead to deterioration in product performance and invalidate shelf life.

Properties of Material Supplied

<i>Test</i>	<i>Part A Resin</i>	<i>Part B Catalyst</i>	<i>Units</i>
Weight per gallon (typical)	10.0	10.4	pounds
Viscosity @ 25 °C (77 °F) (ASTM D2196), typical	18,000 – 28,000	100 – 500	Cp
Flash Point (ASTM D93)	143 (290)	> 93 (200)	°C (°F)

TYPICAL PROPERTIES

Mixed Resin

<i>Test</i>	<i>Value</i>	<i>Units</i>
Viscosity @ 65 °C	100	Cp
Gel Time at 120 °C (250 °F)	30	Minutes

Mechanical Properties – Cured 3 hours at 121 °C + 3 hours at 135 °C

<i>Test</i>	<i>Value</i>	<i>Units</i>
Heat Distortion Temperature	160	°C
Shore D Hardness (ASTM D2240)	90	
Tensile Strength	9800	Psi

Electrical Properties

<i>Test</i>	<i>Value</i>	<i>Units</i>
Dielectric Strength – AS MADE (ASTM D149)	480	Volts/mil
Film thickness	125	mils

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