ELANTAS
Electrical Insulation

Technical Data Sheet

Electrical Insulation

Epoxylite® E 6001

Hermetic Epoxy Impregnating Resin

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Epoxylite® E 6001

Product Description

Epoxylite® E 6001 is a solvent-borne epoxy insulating varnish featuring outstanding resistance to chemicals, including refrigerants.

Areas of Application

Impregnation of motor windings used in hermetic compressors and other refrigeration systems

Recommended for any application requiring resistance to moisture or harsh chemicals

Features and Benefits

- Excellent tank stability
- Low viscosity for excellent penetration
- High bond strength
- Suitable for service up to Class 180

Application Methods

- Dip-and-bake

Transportation / Storage

Store below 25°C / 77°F in a dry controlled environment out of direct sunlight. This material should be suitable for use stored under these 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.

Keep containers tightly sealed to minimize evaporation. Refrigeration is recommended for long-term storage.

Mix thoroughly before use

Health / Safety

Refer to the Safety Data Sheet.

See ELANTAS PDG Technical Bulletin *TI-100 - Handling Precautions for Epoxy Resins* for additional information.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Non-Volatiles	1.5g - 3h - 135°C	36 - 40	%
Appearance		Clear Amber Liquid	
Viscosity	25°C / 77°F	100 – 200	cP
Viscosity Reducer		ELAN-Plus™ 6001S Reducer	
Weight per Gallon	25°C / 77°F	8.2 - 8.5	pounds
Flash Point	ASTM D93	13 55	°C °F

Epoxylite® E 6001

Regulatory Information

Property	Test Method	Value	Units
Volatile Organic Content	ASTM D3960	5.2 [1]	pounds / gallon
RoHS Compliance	Epoxylite® E 6001 and ELAN-Plus™ 6001S Reducer comply with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 (RoHS 2.0) as amended 31 March 2015.		

[1] VOC test methods and limits vary widely by regulatory jurisdiction and product application. The value above was obtained by curing a thin film under specific laboratory conditions (0.5 grams - 1 hour - 110°C). Contact your ELANTAS PDG representative regarding alternate methods.

Application / Curing Schedule

See ELANTAS PDG Processing Guide *PG-113 – Dip Processing Solvent-Borne Impregnating Resins.*

Cure 2 hours at 77°C / 170°F - plus - 6 hours at 135°C / 275°F

Higher temperatures and shorter times may be used on units and surfaces that do not tend to trap evaporating solvent. 30 minutes at 177°C / 350°F is typical under such conditions.

The cure schedules above are based on time after the unit reaches the specified temperature and are recommendations only. The user is responsible for determining the optimum cure conditions for his application.

Typical Mechanical Properties

Property	Test Method	Conditions	Value	Units
Helical Coil Bond Strength over MW 35	ASTM D2519	25°C / 77°F 150°C / 302°F	35 7	pounds pounds

Typical Electrical Properties

Property	Test Method	Conditions	Value	Units
Dielectric Strength	ASTM D149	25°C / 77°F – 0.9 mils	4000	volts/mil
Dielectric Strength	ASTM D149	25°C / 77°F – 0.9 mils After 24 hours in water	3200	volts/mil

The above properties are typical values and are not intended for specification use.