ELANTAS
Electrical Insulation

Technical Data Sheet

Secondary Insulation

Pedigree® E 900 Thixo

Single-Component Epoxy Impregnating Resin

ELANTAS PDG, Inc.
5200 North Second Street
St. Louis, MO 63147
USA
Tel +1 314 621-5700
Fax +1 314 436-1030
info.elantas.pdg@altana.com
www.elantas.com

Pedigree® E 900 Thixo

Product Description

Pedigree® E 900 Thixo is a single-component, heat-cured, epoxy impregnating resin.

Areas of Application

Impregnation of transformers, motor windings and form-wound coils

Coating and impregnation of electronic components,

Protective overcoat for electrical apparatus

Features and Benefits

- Outstanding bond strength
- Good chemical resistance
- No catalyst required
- Thixotropic for high film build

Application Methods

- Dip-and-Bake
- Vacuum-Pressure Impregnation

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 six (6) months from the date of shipment.

Usable life may be extended by refrigerated storage at 5°C / 41°F.

Failure to store this product as recommended above may lead to deterioration in product performance.

Mix product thoroughly before use

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity – 2 rpm	25°C / 77°F	9,000 – 13,500	cP
Viscosity – 20 rpm	25°C / 77°F	4,000 – 7,000	cP
Sunshine Gel Time	150°C / 302°F	9 – 14	minutes
Weight per Gallon	25°C / 77°F	9.6 – 10.0	pounds
Flash Point	ASTM D93	> 94 > 201	°C °F

Curing Schedule

Cure for 2 – 4 hours at 163 - 177°C / 325 - 350°F.

Cure schedule is based on time after unit reaches specified temperature

Preheated units should be no hotter than 52°C / 125°F when placed into the resin.

Pedigree® E 900 Thixo

Typical Mechanical Properties

Property	Conditions	Value	Units
Hardness	Shore D – 25°C / 77°F	80	
Film Build		2 – 4	mils
Helical Coil Bond Strength ASTM D2519 over MW 35	25°C / 77°F 150°C / 302°F	60 20	pounds pounds
Weight Loss	1000 hours @ 180°C / 356°F	2.1	%

Typical Electrical Properties

Property	Conditions	Value	Units
Dielectric Strength	ASTM D149 – 1.4 mils	2700	volts/mil
Dielectric Strength	ASTM D149 – 1.4 mils After 24 hours in water	2200	volts/mil
Volume Resistivity	ASTM D257 – 25°C / 77°F ASTM D257 – 100°C / 212°F	1.5×10^{15} 1.7×10^{10}	ohm-cm ohm-cm
Dielectric Constant	1 kHz – 25°C / 77°F 1 kHz – 100°C / 212°F	3.1 4.5	
Dissipation Factor	1 kHz – 25°C / 77°F 1 kHz – 100°C / 212°F	.01 .20	

Underwriters Laboratories Recognition (ELANTAS File E75225)

Wire Construction	Helical Coil	Twisted Pair
NEMA MW76	Class 155	Class 130
NEMA MW35	Class 180	Class 155

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