

**Technical Data Sheet**

**Secondary Insulation**

**Pedigree<sup>®</sup> 4000F VTC**  
(Pedigree<sup>®</sup> 4000F Hermetic Pre-Cat)

**Copolymer Impregnating Resin**

## Pedigree® 4000F VTC

### Product Description

Pedigree® 4000F VTC is a 100%-reactive, unsaturated copolymer resin in vinyl toluene monomer.

### Areas of Application

Impregnation of motor stators and armatures

### Features and Benefits

- Pre-catalyzed
- Refrigerant-resistant
- High bond strength
- Excellent chemical and moisture resistance

### Application Methods

- Vacuum-Pressure Impregnation
- 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 Three (3) months from the date of shipment.

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

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

Mix product thoroughly before use

See Technical Bulletin TI-4001 for tank maintenance instructions

### Health / Safety

Refer to the Material Safety Data Sheet.

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### Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	150 - 250	cP
Sunshine Gel Time	125°C / 257°F	10 - 20	minutes
Viscosity Reducer		ELAN-Plus™ BS-217 Diluent	
Gel Time Adjuster		ELAN-Plus™ BS-6440 Inhibitor	
Weight per Gallon	25°C / 77°F	8.9 - 9.3	pounds
Flash Point	ASTM D93	49 120	°C °F

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### Application / Curing Schedule

Preheated units should be allowed to cool to 38 - 49°C / 100 - 120°F before immersion in resin.

Cure for four hours at 135°C / 275°F - or -  
two hours at 177°C / 350°F

Cure schedule is based on time after unit reaches specified temperature

### Typical Mechanical Properties

**Specimens cured two hours at 150°C / 302°F - Single Dip**

Property	Conditions	Value	Units
Helical Coil Bond Strength ASTM D2519 over MW 35	25°C / 77°F	31	pounds
	150°C / 302°F	15	pounds
Hardness	Shore D	90	

### Typical Electrical Properties

Property	Conditions	Value	Units
Dielectric Strength	ASTM D149 - 0.8 mils	5500	volts/mil
Dielectric Strength	ASTM D149 - 0.8 mils After 24 hours in water	2800	volts/mil

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

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