

Secondary Insulation
Impregnating Resin

Ped. 70 VT Thixotropic Polyester Resin

High build polyester resin

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Technical data sheet

Description

The Pedigree 70VT Thixotropic is an unsaturated polyester resin in vinyl toluene. It is it an excellent choice for impregnation of stators.

Uses

- Impregnation of stators and armatures.

Cured Properties

The Pedigree 70VT is a high build polyester resin. It has excellent high temperature resistance and is included in UL recognized insulation systems up to Class 240.

Catalyst

No catalyst is required.

Features and Benefits

- Good bond strength
- High film build
- Offers thermal ratings from 130° C to 220° C

Application Methods

- Dip and Bake
- Vacuum Pressure Impregnation (VPI)
- Vacuum Impregnation (VI)

Storage/Shelf Life

This resin should be stored at a 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.

Properties of Material Supplied

<i>Test</i>	<i>Value</i>	<i>Units</i>
Viscosity @ 25°C (77°F) 20 RPM (ASTM D2196)	900 - 1700	Cp
Sunshine Gel Time @ 125°C (212°F) (ASTM D3056)	> 10	Minutes
Flash Point (ASTM D93)	53 (127)	°C (°F)

TYPICAL PROPERTIES

Mechanical Properties – Cured 2 hours at 150 °C (300 °F), Single dip

<i>Test</i>	<i>Value</i>	<i>Units</i>
Helical Coil Bond Strength @ 25 °C (ASTM D2519) MW35	27	Pounds
Helical Coil Bond Strength @ 150 °C (ASTM D2519) MW35	3	Pounds
Hardness, Shore D (ASTM 2240)	80	

Electrical Properties

<i>Test</i>	<i>Value</i>	<i>Units</i>
Dielectric Strength – AS MADE (ASTM D149)	2100	Volts/mil
Dielectric Strength after 24 hours in water (ASTM D149)	1800	Volts/mil
Film thickness	4.4	mils

UL Recognized Insulation Systems (E87039)

<i>Class</i>	<i>Systems</i>
Class 130	PDG 12, 106, 111
Class 155	PDG 9, 108
Class 180	PDG 14, 109, 180 High Voltage
Class 200	PDG 7, 10
Class 220	PDG 8, 15, 220 High Voltage
Class 240	PDG 16



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