JASDI CHEMICALS CO., LTD. TEL:+886-4-25685848/+886-2-26008672



Technical Data Sheet Secondary Insulation Impregnating Resin

Pedigree 600 Polyester Resin

Two component, high bond strength resin

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Description

The Pedigree 600 is an unsaturated polyester resin in styrene, high bond strength makes it an excellent choice for impregnation of high speed armatures.

Uses

Impregnation of small and large armatures.

Cured Properties

The Pedigree 600 is high bond strength resin system designed for use in high speed armatures.

Catalyst

Peroxide catalyst is required to facilitate the proper cure of this resin system. TBP is recommended at a mix ratio of 100 parts resin to 1 parts of TBP by weight.

Recommended Cure

Minimum of 20 minutes at 165-180 °C (325 - 350 °F) after part reaches cure temperature

Features and Benefits

- Low temperature curing
- High bond strength
- Offers thermal ratings from 130° C to 220° C

Application Methods

- Dip and Bake
- Trickle

Storage/Shelf Life

This resin should be stored at a 25 ℃ 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 six (6) months from the date of shipment.

Properties of Material Supplied

Test	Value	Units
Viscosity @ 25 °C (77 °F) (ASTM D2196)	235 – 305	Ср
Sunshine Gel Time @ 100 ℃ (212 °F) w/ 1% TBP (ASTM D3056)	15 – 25	Minutes
Flash Point (ASTM D93)	28(83)	°C (°F)

TYPICAL PROPERTIES

Mechanical Properties – Resin w/ 1% TBP, Cured 1 hour at 200 °C (390 °F)

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Test	Value	Units	
Helical Coil Bond Strength @ 25 °C (77 °F) (ASTM D2519)	62	Pounds	
Helical Coil Bond Strength @ 150 ℃ (300 ℉) (ASTM D2519)	18	Pounds	
Hardness, Shore D (ASTM 2240)	84		

Electrical Properties

Test	Value	Units
Dielectric Strength – AS MADE (ASTM D149)	3400	Volts/mil
Dielectric Strength after 24 hours in water (ASTM D149)	3800	Volts/mil
Film thickness	1.5	mils

UL Recognized Insulation Systems (E87039, E103575)

Class	Systems
Class 130	PDG 1, 2, 6, 12, 106, 107, 110, 111
Class 155	PDG 3, 9, 102, 108, 86-155-1
Class 180	PDG 14, H-1, 91-180-1, 86-180-5
Class 200	PDG7, 10
Class 220	PDG 15
Class 240	PDG 16

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