ELANTAS
Electrical Insulation

Technical Data Sheet

Secondary Insulation

RanVar™ B7-606 DAPC

Precatalyzed Polyester Impregnating Resin

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RanVar™ B7-606 DAPC

Product Description

RanVar™ B7-606 DAPC is a precatalyzed, heat-cured, unsaturated polyester resin.

Areas of Application

Impregnation of form wound and random wound motor and generator coils

Features and Benefits

- Outstanding bond strength at high temperature
- Excellent tank stability
- High flash point
- Resistant to R-22, R-134a and R-123 refrigerants
- UL recognized insulation systems up to class 220

Application Methods

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

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 the product as recommended above may lead to deterioration in product performance.

Mix product thoroughly before use.

See Technical bulletin TI-4001 *Unsaturated Polyester Resin Maintenance* for tank maintenance instructions.

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	500 - 800	cP
Sunshine Gel Time	118°C / 244°F	15 - 30 [1]	minutes
Density	ASTM D1475	9.8 - 10.2	lbs/gal
Viscosity Adjuster		ELAN-Plus™ BS-307 Diluent	
Gel Time Adjuster		ELAN-Plus™ BS-6440 Inhibitor	
Flash Point	ASTM D93	> 94 > 201	°C °F

[1] Gel time may drift during shipment and storage. Refer to Technical Bulletin TI-4001 for adjustment instructions.

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Cure Schedule

2 hours at 175°C (347°F), 4 hours at 150°C (302°F)

4 hours at 150°C (302°F) plus 2 hours at 180°C (356°F) for rotors, armatures and hermetic applications

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 - single dip - cured 2 hours at 175°C / 347°F

Property	Conditions	Value	Units
Helical Coil Bond Strength ASTM D2519 over MW 35	25°C / 77°F 150°C / 302°F	47 19	pounds pounds

Typical Electrical Properties - single dip - cured 2 hours at 175°C / 347°F

Property	Conditions	Value	Units
Dielectric Strength	ASTM D149 – 0.5 mils	4200	volts/mil
Dielectric Strength	ASTM D149 – 0.5 mils After 24 hours in water	3700	volts/mil

UL Recognized Insulation Systems (ELANTAS File E87039)

Thermal Class	System
Class 130	MEGA I
Class 155	MEGA II
Class 180	MEGA III, W-180-1, WEHV-3
Class 200	MEGA IV
Class 220	MEGA V, WEHV-1, WEHV-2

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

ELANTAS PDG, Inc. warrants the chemical composition of its products within stated tolerances, but does not guarantee that a product will be appropriate for any particular application. Any recommendation, performance of tests or suggestion is offered merely as a guide and is not a substitute for a thorough evaluation by the user. No representative of ELANTAS PDG, Inc. has the authority to offer a warranty that a product will perform satisfactorily in manufacturing a product and no such representation should be relied upon.