

Technical Data Sheet

Secondary Insulation

RanVar™ R2003 VTC
(R2003C CATALYZED HI-PERFORMANCE COPOLYMER)

Single-Component Copolymer Resin

RanVar™ R2003 VTC

Product Description

RanVar™ R2003 VTC is a single-component, heat-cured, 100% solids copolymer impregnating resin.

Areas of Application

Impregnation of small and large motor windings, form wound coils and transformers, including high voltage

Features and Benefits

- Chemical and moisture resistance of epoxy with enhanced thermal endurance
- Low viscosity for excellent penetration
- Resilient
- No separate catalyst required
- UL recognized insulation systems up to Class 220

Application Methods

- Vacuum-Pressure Impregnation
- Vacuum 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.

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

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

For best results, VPI storage tanks should have a replenishment rate of 10% or more per month and employ cooling systems to maintain the resin at 20°C / 68°F or below.

Mix thoroughly before use

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	450 - 750	cP
Weight per Gallon	25°C / 77°F	8.7 – 9.1	pounds
Sunshine Gel Time	118°C / 244°F	10 - 20 ^[1]	minutes
Viscosity Reducer		ELAN-Plus™ BS-217 Diluent	
Gel Time Adjuster		ELAN-Plus™ BS-374 Inhibitor	
Flash Point	ASTM D93	53 127	°C °F

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

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UL Recognized Insulation Systems (ELANTAS File E87039)

Thermal Class	System
Class 130	MEGA I
Class 155	MEGA II
Class 180	MEGA III
Class 200	MEGA IV
Class 220	MEGA V

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

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