

Technical Data Sheet
Secondary Insulation Pigmented Resin

RanVar BT 6447 (32230AA) Red Enamel

Single Component Air Dry Insulating Enamel

Description

BT-6447 is a modified alkyd insulating resin formulated with a non-conductive pigment which makes it suitable for dual function as a insulating resin in Class F systems, as well as a finish coat. BT-6447 is a moderate viscosity red liquid.

Uses

Protection electrical winding end turns and motor housings.

Cured Properties

Tough, glossy, flexible film providing high dielectrics with good adhesion.

Catalyst

No catalyst is required.

Recommended Cure

8- 24 hours Air Dry @ 25°C (77°F)-OR-

Force Cure

Air Dry 1 hour @ 25°C (77°F) then 20–30 minutes @ 80-90°C (176–194°F)

Features and Benefits

- Provides good adhesion
- High Dielectrics
- Class F (155°C)
- High gloss sheds dirt
- 10 - 20 minute tack free
- 1 hour dry to touch

Application Methods

- Spray or dip
- Substrate must be clean, rust and contaminant free
- Reduce as necessary

Transportation/Storage/Shelf Life

This resin should be stored at 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 this product as recommended above may lead to deterioration in product performance and invalidate shelf life. Agitate before use.

Properties of Material Supplied

<i>Test</i>	<i>Value</i>	<i>Units</i>
Viscosity @ 25°C (77°F) (ASTM D 4212) #3 EZ Zahn Cup	40 – 55	Seconds
Percent Non - Volatile matter (ASTM D 2369)	48 - 55	Percent
Weight per gallon, typical	8.65 – 9.05	Pounds
Flash Point (ASTM D93), typical	15 (59)	°C (°F)
Reducer	Xylene	

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TYPICAL PROPERTIES

Properties – Air Dried 24 hours

<i>Test</i>	<i>Value</i>	<i>Units</i>
Gloss @ 60°	80 minimum	
Recommended Dry Film Thickness	1.0 – 1.5	Mils
Mileage @ 1 Mil Dry Film Thickness, Theoretical	655	Square Feet/gallon

Electrical Properties

<i>Test</i>	<i>Value</i>	<i>Units</i>
Dielectric Strength – AS MADE (ASTM D149)	3000	Volts/mil
Dielectric Strength after 24 hours in water (ASTM D149)	1500	Volts/mil
Film thickness	1.0 – 1.5	mils

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

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