ELANTAS

Technical Data Sheet

Electrical Insulation Materials

RanVar™ B6-254 Flat Black

Air-Drying Epoxy Enamel

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RanVar™ B6-254 Flat Black

Product Description

RanVar™ B6-254 Flat Black is an opaque, solvent-borne, air-drying, modified epoxy enamel.

Areas of Application

General-purpose protective coating for non-porous substrates including electrical and electronic components

Features and Benefits

- Dries to a hard, flat finish and flexible film
- Excellent chemical and moisture resistance
- High dielectric strength
- Suitable for Class 155 service

Application Methods

- Dip-and-Bake
- Brush
- Spray

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.

Keep containers tightly sealed to minimize evaporation.

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

Mix product thoroughly before use.

Health / Safety

Refer to the Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity - #2 EZ Cup	25°C / 77°F	75 - 90	seconds
Non-Volatiles	0.3 g - 1 h - 110° C	51 - 56	%
Weight per Gallon	25°C / 77°F	9.7 - 10.3	pounds
Viscosity Reducer		ELAN-Plus™ BS-107 Reducer	
Flash Point	ASTM D93	30 86	°C °F

Spray Application

For conventional air spray, reduce with ELAN-Plus™ BS-107 Reducer to 20 - 30 seconds, #2 EZ Cup

For cold airless spray, reduce with ELAN-Plus™ BS-107 Reducer to 35 - 50 seconds, #2 EZ Cup

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Regulatory Information

Property	Test Method	Value	Units
Volatile Organic Content	ASTM D3960	4.7 [1]	pounds / gallon

[1] VOC test methods and limits vary widely by regulatory jurisdiction and product application. The value above was obtained by curing a thin film under the specific laboratory conditions.

Curing Schedule

Dry-to-touch: 20 - 30 minutes at 25°C / 77°F

Hard: 24 hours at 25°C / 77°F

Allow 5 - 7 days to develop full properties.

Alternatively, air dry for one hour at 25°C / 77°F, followed by force cure of 20 minutes at 90°C / 194°F

Impregnated electrical windings must allow a minimum of three days at room temperature for complete evaporation of solvent and penetration of oxygen for an effective cure.

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 their application.

Typical Mechanical Properties - Specimens cured seven days at 25°C / 77°F

Property	Test Method	Conditions	Value	Units
Gloss @ 60°	ASTM D523		10 - 15	
Dielectric Strength	ASTM D149	25°C / 77°F - 2.0 mils	1800	volts/mil
Dielectric Strength	ASTM D149	25°C / 77°F - 2.0 mils After 24 hours in water	1500	volts/mil

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.