



Technical Data Sheet

Secondary Insulation

Sterling[®] 77X-010

Air-Drying Impregnating Resin

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Sterling® 77X-010

Product Description

Sterling® 77X-010 is a clear, solvent-borne, air-drying impregnating resin.

Areas of Application

Impregnation of stator and transformers windings

Protective coating for printed circuit boards, resistors and other components

Features and Benefits

- Fast drying
- Excellent chemical and moisture resistance
- UL listed Class 130 through Class 180

Application Methods

- Dip-and-Bake
- 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.

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	40 – 100	cP
Non-Volatile Content		34 – 38	%
Weight per Gallon	25°C / 77°F	7.1 – 7.3	pounds
Adjustment Thinner		VM&P Naphtha, Xylene or blend	
Flash Point	ASTM D93	34 93	°C °F

Curing Schedule

Sterling® 77X-010 will air dry at 25°C / 77°F in 40 - 60% relative humidity to a tack-free surface in 20 - 30 minutes. Drying can be accelerated by exposure to 125 - 135°F / 257°F - 275°F for 2 - 3 minutes after an initial flash-off of one minute.

Impregnated windings must allow a minimum of three days at room temperature for evaporation of solvent and penetration of oxygen to achieve best properties.



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Typical Electrical Properties

Specimen cured 72 hours at 25°C / 77°F

Property	Conditions	Value	Units
Dielectric Strength	ASTM D149	4000	volts/mil
Dielectric Strength	ASTM D149 After 24 hours in water	2700	volts/mil

Underwriters Laboratories Recognition (ELANTAS File E75225)

Wire Construction	Helical Coil	Twisted Pair
NEMA MW24	Class 200	Class 180
NEMA MW28	Class 130	Class 130
NEMA MW35	Class 200	Class 180

Sterling[®] 77X-010 is also listed in the UL Components Directory under the category of System Components (OBS-2) in ELANTAS File E87039 for Thermal Class 130 through 180.

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.