

**Technical Data Sheet**

**Developmental Product**

**ELAN-Tron<sup>®</sup> SE 6973 LS6973-092**

**Air-Drying Conformal Coating**

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## ELAN-Tron® SE 6973 LS6973-092

### Product Description

ELAN-Tron® SE 6973 LS6973-092 is a transparent, solvent-borne, silicone-modified epoxy resin solution.

### Areas of Application

Protective coating for printed circuit boards and discrete electronic devices

### Features and Benefits

- Suitable for service up to 200°C
- QPL listed for MIL-I-46058C Type ER and MIL-I-46058C Type SR
- Meets IPC-CC-830B Type ER
- Fast-drying with adequate open time to provide a smooth, continuous film
- Formulated for excellent air release and substrate wetting
- UV light fluorescent

### Application Methods

- Dip coating
- Airless or Air-assisted 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.

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	80 – 200	cP
Non-Volatile Content	1.5 g - 1 h - 110°C	38 - 40	%
Weight per Gallon	25°C / 77°F	7.9 – 8.1	pounds
Viscosity Reducer	ELAN-Plus™ BS-327 Reducer		
Flash Point	ASTM D93	17 62	°C °F

### Regulatory Information

Property	Test Method	Value	Units
Volatile Organic Content	ASTM D3960	4.1 <sup>[1]</sup>	pounds / gallon

<sup>[1]</sup> VOC test methods and limits vary widely by regulatory jurisdiction and product application. The value above was obtained by curing a thin film under specific laboratory conditions (0.5 grams - 1 hour - 110°C). Exempt solvents are excluded from the calculation.

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### Application and Curing Schedule

ELAN-Tron® SE 6973 can be used as-is for dipping application. Adjust viscosity, if necessary, with ELAN-Plus™ BS-327 Reducer for spray application.

ELAN-Tron® SE 6973 dries to the touch within 15 minutes at room temperature. Allow 16 – 24 hours to achieve nominal electrical properties.

Alternatively, after board is dry to handle, cure for 30 minutes at 80°C / 175°F.

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 Electrical Properties

Property	Test Method	Conditions	Value	Units
Dielectric Strength	ASTM D149	1.4 mils – 25°C / 77°F	3600	volts / mil
Dielectric Strength	ASTM D149	1.4 mils – 25°C / 77°F After 24 hours in water	1250	volts / mil
Surface Insulation Resistance	IPC TM-650-2.6.3.3	1000 hours at 85°C / 85% R.H.	370	megaohms

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.