

Technical Data Sheet

Electronic & Engineering Materials

ELAN-Tron[®] E GRC 69

Two-Component Epoxy Adhesive / Sealant

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ELAN-Tron® E GRC 69 Epoxy

Product Description

ELAN-Tron® E GRC 69 is a two-component, room temperature curing, 100%-solids epoxy system. It consists of E GRC 69 Resin and C GRC 69 Hardener.

Areas of Application

Bonding and staking adhesive for electrical and electronic components

Compatible with epoxy and polyurethane potting compounds

Features and Benefits

- Convenient 1:1 mix ratio
- Highly thixotropic – does not sag or run
- Sets quickly at room temperature
- Chemical and moisture-resistant
- Available in bulk or in pre-measured dual-cartridge dispensers

Application Methods

Static meter mix or dual-cartridge dispenser with static mixing nozzle

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.

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

Mix individual components thoroughly before use.

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value		Units
		ELAN-Tron® E GRC 69 Resin	ELAN-Tron® C GRC 69 Hardener	
Viscosity	25°C / 77°F	Thixotropic Paste	Thixotropic Paste	
Color		Amber	Amber	
Weight per Gallon	25°C / 77°F	9.3 – 9.7	8.2 – 8.5	pounds
Flash Point	ASTM D93	> 94 > 201	> 94 > 201	°C °F
Mix Ratio	Parts by volume	100	100	

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Typical Properties of Mixed Materials

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	Thixotropic Paste	
Pot Life	25°C / 77°F – 5 grams	2 – 3	minutes
Gel Time	25°C / 77°F – 5 grams	3 - 4	minutes

Curing Schedule

Mixed resin cures hard in 24 hours at room temperature and develops full properties after 5 - 7 days.

Alternatively, the resin may be allowed to gel at room temperature followed by curing for 2 hours at 65°C / 150°F.

Cure schedule is based on time after the unit reaches the specified temperature.

Typical Mechanical Properties

Specimens cured 7 days at 25°C / 77°F

Property	Conditions	Value	Units
Hardness	Shore D	80 - 85	

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.