

**Technical Data Sheet**

**Electronic & Engineering Materials**

**ELAN-Tron<sup>®</sup> E 238 Epoxy**

**Two-Component Anode Bridge Laminating Resin**

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## ELAN-Tron<sup>®</sup> E 238 Epoxy

### Product Description

ELAN-Tron<sup>®</sup> E 238 Resin / C 238 Hardener is a 100%-solids, two-component epoxy system.

### Areas of Application

Coating for anode bridges, bus bars, etc.

Bonding material for in-place laminates

Protective coating, sealant and adhesive for metals and plastics

### Features and Benefits

- Room-temperature or low heat cure
- Thixotropic for minimal run-off
- Semi-rigid
- Excellent resistance to chemicals and moisture
- Suitable for continuous service up to 121°C / 250°F

### Application Methods

Brush

Roller coat

### 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 this product as recommended above may lead to deterioration in product performance.

Mix individual components thoroughly before use

### Health / Safety

Read and observe precautions recommended in the Material Safety Data Sheet.

### Typical Properties of Material as Supplied

Property	Conditions	Value		Units
		ELAN-Tron <sup>®</sup> E 238 Resin	ELAN-Tron <sup>®</sup> C 238 Hardener	
Viscosity (20 rpm)	25°C / 77°F	25,000 – 45,000	5 - 20	cP
Weight per Gallon	25°C / 77°F	9.7 – 10.1	8.3 – 8.6	pounds
Flash Point	ASTM D93	> 94 > 201	121 250	°C °F
Mix Ratio	Parts by weight	100	25	

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### Typical Properties of Mixed Material \*

Property	Conditions	Value	Units
Pot Life	100 grams – 25°C / 77°F	60	minutes

\* Mix E 238 Resin and C 238 Hardener in the recommended ratio, hand-stirring with a spatula or similar device.

### Curing Schedule

Cure for 24 hours at 25°C / 77°F. Properties may be improved by a post cure of 1 hour at 93°C / 200°F or 2 hours at 65°C / 150°F

Alternatively, full cure may be achieved with 4 hours at 93°C / 200°F.

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

### Typical Mechanical Properties

Property	Conditions	Value	Units
Lap Shear Strength Aluminum - Aluminum	25°C / 77°F	2,700	psi
Lap Shear Strength Aluminum – Rigid Vinyl	25°C / 77°F	700	psi

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.