

Technical Data Sheet

Electronic & Engineering Materials

ELAN-Tron[®] E 211 Blue Resin
ELAN-Tron[®] C 301 Hardener

Two-Component Epoxy Brush-On Compound

ELAN-Tron[®] E 211 Blue Resin / C 301 Hardener

Product Description

ELAN-Tron[®] E 211 Blue Resin / C 301 Hardener is a 100%-solids, two-component epoxy system.

It is available as individual components or in 100-gram pre-measured kits (ELAN-Tron[®] E 211 Blue Epoxy Kit).

Areas of Application

Protective coating, sealant and adhesive for metals, plastics, ceramics and other surfaces

Casting or potting of small electrical components

Preparation of epoxy-glass laminates

Features and Benefits

- Electrically insulating, abrasion-resistant
- Brushable for high build-up with a single application
- Excellent resistance to chemicals and moisture
- Room-temperature cure

Application Methods

Brush

Spatula

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 [®] E 211 Blue Resin	ELAN-Tron [®] C 301 Hardener	
Viscosity (20 RPM)	25°C / 77°F	60,000 – 90,000	5 - 10	cP
Weight per Gallon	25°C / 77°F	12.1 – 12.5	7.7 – 8.0	pounds
Flash Point	ASTM D93	> 94 > 201	> 94 > 201	°C °F
Mix Ratio	Parts by weight	100	6.5	

ELAN-Tron[®] E 211 Blue Resin / C 301 Hardener

Typical Properties of Mixed Material *

Property	Conditions	Value	Units
Pot Life	25°C / 77°F	30	minutes

* Mix E 211 Blue Resin and C 301 Hardener in the recommended ratio, hand-stirring with a spatula or similar device.

Typical Mechanical Properties

Property	Conditions	Value	Units
Tensile Strength	25°C / 77°F	8500	psi
Lap Shear Strength	25°C / 77°F	3200	psi
Water Absorption	24 hours at 25°C / 77°F	0.1	%

Application and Curing Schedule

Surface preparation is critical to optimum performance. For plastics, wipe with solvent, sand lightly and allow to dry. For metals, sand blast or wire brush, then wash with solvent. When coating a broad area, reinforcement in the form of a thin open-weave glass cloth is recommended.

Apply mixed Resin and Hardener at room temperature (25°C / 77°F) or above. If the ambient temperature is lower, or a faster cure is desired, a heat lamp may be used.

Material will harden within four hours, with thinner films requiring a longer time. Allow 24 - 72 hours to develop full properties.

Alternatively, cure for 2 hours at 80°C / 175°F.

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

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.