

Technical Data Sheet

Electronic & Engineering Materials

ELAN-Cast[®] Y-363

Two-Component Lifting Magnet Compound

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ELAN-Cast® Y-363

Product Description

ELAN-Cast® Y-363 is an unfilled, 2-component, room temperature curing, 100%-solids resin system.

Areas of Application

Potting and sealing of lifting magnets

Potting of small transformers and other electrical components

Features and Benefits

- Flexible to resist mechanical shock
- Moisture resistant
- Accelerated cure possible with low temperature bake

Application Methods

- Atmospheric potting

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 may lead to deterioration in product performance

Mix individual components thoroughly before use.

Keep containers tightly sealed to minimize exposure to moisture and oxygen. Partial containers should be blanketed with nitrogen or other inert gas.

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value		Units
		ELAN-Cast® Y-363A Resin	ELAN-Cast® Y-363B Catalyst	
Viscosity	25°C / 77°F	200 - 250	1,000 – 2,000	cP
Color		Amber	Dark Brown	
Weight per Gallon	25°C / 77°F	7.6 – 8.0	8.3 – 8.6	pounds
Flash Point	ASTM D93	274 525	>94 >201	°C °F
Mix Ratio	Parts by weight Parts by volume	100 100	21.5 20	

Typical Properties of Mixed Materials

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	250 - 500	cP
Gel Time	25°C / 77°F – 120 grams	30 - 60	minutes

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Application and Curing Schedule

Pre-heat the unit, as necessary, to remove moisture and set winding tapes.

Cool unit to 40 – 50°C / 104 – 122°F.

Mix Y-363A Resin and Y-363B Catalyst in the ratio specified above until homogeneous. Pour into unit.

Allow resin to gel at room temperature. Hold at room temperature until desired megger reading is achieved, typically 3 - 7 days.

Alternatively, after the resin has gelled, cure can be accelerated by baking 8 hours at 100°C / 212°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 his application.

Typical Mechanical Properties – specimens cured 72 h @ 25°C / 77°F

Property	Conditions	Value	Units
Hardness	Shore D	14	
Weight Loss	168 h @ 150°C / 302°F	1.9	%

Typical Electrical Properties

Property	Conditions	Value	Units
Dielectric Strength	ASTM D149 – 100 mils	500	volts/mil
Dielectric Strength	ASTM D149 – 100 mils After 24 hours in water	500	volts/mil
Insulation Resistance (potted ¼-inch electrode)	Cure 18 h @ 25°C / 77°F	3,800	megohms
	Cure 72 h @ 25°C / 77°F	12,000	megohms
	Cure 168 h @ 25°C / 77°F	30,000	megohms
	Gel + post-cure 8 h @ 100°C / 212°C	110,000	megohms

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.