

PT 369 High Viscosity Clear Potting Epoxy

Description

PT 369 is a two-part clear potting compound based on epoxy resins. When fully cured the surface is glossy, blush free and hard. It has very good scratch and water resistance. This system has enhanced adhesion and wets glass, ceramics, most plastics and metals well. The viscosity has been adjusted to prevent sagging and minimal stringing.

Applications

1. Clear potting epoxy for electrical and electronic devices.

Guidelines for Use

1. Mix Part A resin and Part B hardener in the ratio of 1.0 : 1.0 by weight.
2. The pot life is more than 60 minutes. Processing or pouring the mixed epoxy after 1 hour may tend to trap bubbles.
3. The epoxy may be poured over the object, spread with a brush, or dispensed with a syringe.
4. Blowing hot air over the surface of the epoxy can break any bubbles formed during mixing.
5. Wipe off any excess uncured epoxy with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue wetted with isopropanol (IPA).
6. The epoxy will harden in 2 hours. Full hardness will be achieved in 3 days. Faster curing can be achieved at elevated temperatures, eg. 80°C for 2 hours.

Properties

Property	Test Method	Unit	Typical Value		
			Part A Resin	Part B Hardener	Mixed
Chemical type			Epoxy	Amine	
Appearance	Pen 10		Clear liquid	Clear Liquid	
Mix ratio, by weight			1.0	1.0	
Shelf life, 25°C	Pen 26	Month	12	12	
Pot life, 25°C	Pen 57	Hour			1
Viscosity, Brookfield RVT, 25°C	ASTM D2393	cP	15,250	29,950	17,800
Hardness, cured 25°C for 24 hr	Pen 29	Shore D			81
Flexural strength	Pen	kgcm ⁻²			1020
Water boil, wt gain, 24 hr	Pen 21	%			0.8
Density		g/cm ³			1.09
CTE 1		ppm/K			81
CTE 2		ppm/K			260
Dielectric strength	ASTM D149	V/mil			558
Volume resistivity, 25°C	ASTM D257				5.0 x 10 ¹⁵
Dissipation factor, 100Hz, 25°C					3.0 x 10 ⁻³
Tg, DSC, cured 25°C for 7 days	Pen 19	°C			71

Recommended Cure

Temp. (°C)	Gel time	Cure time
25	4 hr	24 hr
80	30 mins	2 hr
100	15 mins	1 hr

Storage

Tightly close original container of unused product. Store in a cool and dark place.

Packaging

- 500g plastic bottle
- 1 kg plastic bottle
- 5 kg plastic bottle

Environment, Health & Safety

This product is RoHS compliant. It does not contain any known carcinogenic, mutagenic or teratogenic components.

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