

## PT 366 Black Potting Epoxy

### Description

PT 366 is a two-part black potting compound based on epoxy resins. The black colorant used is a stable organic dye. When fully cured the surface is glossy, bluish free and hard. It has very good scratch and water resistance. This system has enhanced adhesion, is of low viscosity and wets glass, ceramics, most plastics and metals well.

### Applications

1. Black potting epoxy for electronic devices which require non-electromagnetic interferences.

### Guidelines for Use

1. Mix Part A resin and Part B hardener in the ratio of 2.0 : 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 24 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	-	Black liquid	Clear Liquid	
Mix ratio, by weight	-	-	2.0	1.0	
Shelf life, 25 °C	Pen 26	Month	12	12	
Pot life, 25 °C	Pen 57	Hour			1
Viscosity, CAP2000+ viscometer, 25°C	Pen 44	cps	14,688	78.1	3,863
Hardness, cured 25 °C for 24 hr	Pen 29	Shore D			77
Tensile strength	Pen	MPa			64
Flexural strength	Pen	kgcm <sup>-2</sup>			1041
Water boil, wt gain, 24 hr	Pen 21	%			1.0
Density		g/cm <sup>3</sup>			1.14
Dielectric strength	ASTM D149	V/mil			558
Volume resistivity, 25 °C	ASTM D257	-			5.0 x 10 <sup>15</sup>
CTE 1					57
CTE 2					201
Dissipation factor, 100Hz, 25 °C					3.0 x 10 <sup>-3</sup>
Tg, DSC, cured 25 °C for 7 days	Pen 19	°C			63

### Recommended Cure

Temp. (°C)	Gel time	Cure time
25	6 hr	24 hr
80	30 mins	2 hr

### Storage

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

### Packaging

- 30 ml EFD syringe
- 1 kg plastic jar
- 5 kg plastic pail

### Environment, Health & Safety

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

### Contact Information

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