

PT 605

Flexible Black Potting Epoxy

Description

PT 605 is a two-part flexible black potting compound based on epoxy resins. When fully cured the surface is glossy, blush free and soft. 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. Flexible black potting epoxy for electrical and electronic devices.

Guidelines for Use

1. Gently shake Part A before use.
2. Mix Part A resin and Part B hardener in the ratio of 2.0 : 1.0 by weight.
3. The pot life is more than 60 minutes. Processing or pouring the mixed epoxy after 1 hour may tend to trap bubbles.
4. The epoxy may be poured over the object, spread with a brush, or dispensed with a syringe.
5. Blowing hot air over the surface of the epoxy can break any bubbles formed during mixing.
6. 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).
7. The epoxy will harden in 12 hours. Full hardness will be achieved in 1 day. Faster curing can be achieved at elevated temperatures, eg. 80° C for 3 hours.

Properties

Property	Test Method	Unit	Typical Value		
			Part A Resin	Part B Hardener	Mixed
Chemical type	-	-	Epoxy	Amine	
Appearance	Pen 10	-	Black liquid	Yellowish Clear	
Mix ratio, by weight	-	-	2.0	1.0	
Shelf life, 25°C	Pen 26	Month	12	12	
Pot life, 25°C	Pen 57	Hour			2
Viscosity, CAP2000+ viscometer, 25°C	Pen 44	cP	24,720	100	3,200
Hardness, cured 25°C for 7 days	Pen 29	Shore A			65
Tensile Strength		MPa			7
Density		g/cm ³			1.37
Water boil, wt gain, 24 hr	Pen 21	%			1.0
Ionic Content, Cl	-	ppm			>500
, K	-	ppm			N.D
, Na	-	ppm			N.D
Thermal conductivity	ISO/DIS 22007	Wm ⁻¹ K ⁻¹			1.1
CTE 1		ppm/K			40
CTE 2		ppm/K			181
Electrical resistivity	-	ohm.cm			10 ¹⁶
Glass Transition Temperature		°C			24
Filler type	-	-	Metal oxide		

Recommended Cure

Alternative cure	Temp. (°C)	Cure time
A	25	24 hr
B	80	3 hr

Storage

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

Packaging

- 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.

Contact Information

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