



TG-LH-FBPE-80

Flexible Black Potting Epoxy

Version 2.130218



Flexible Black Potting Epoxy

TG-LH-FBPE-80 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.

Features

- Flexible
- Convenient volume mix ratio
- Very low mixed viscosity
- Good adhesion to a wide variety of substrates including metals, composites, glass, ceramics, and many plastics
- Excellent electrical insulating characteristics
- Extreme resistance to water and humidity (allows for submersion where needed)

Applications

Flexible black potting epoxy for electrical and electronic devices

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG-LH-FBPE-80			Units	Test Method
	Part A Resin	Part B Hardener	Mixed		
Chemical type	Epoxy	Amine	-	-	-
Appearance	Black Liquid	Clear yellowish liquid	-	-	Visual
Mix Ratio, by weight	2.0	1.0	-	-	-
Shelf Life, 25°C	12	12	-	Months	ASTM F2914
Pot Life, 25°C	-	-	6	hours	ASTM F2914
Viscosity, CAP2000+ viscometer, 25°C	22,200	140	3,200	cP	ASTM D1084
Hardness, cured 25°C for 7 days	-	-	80	Shore 00	ASTM D2240
Water Boil, wt gain, 24 hr	-	-	1.0	%	-
Ionic Content, Cl	-	-	>500	-	-
Ionic Content, K	-	-	N.D	-	-
Ionic Content, Na	-	-	N.D	-	-
Thermal Conductivity	-	-	1.1	w/mk	ASTM D5470
Electrical Resistivity	-	-	10 ¹⁶	Ω-m	-
Filler Type	Metal Oxide	-	-	-	-
Maximum Operating Temperature	-	-	150	°C	-

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Standard Packaging

Size	Pot	Weight (gr)
	Plastic Bottle	1 kg
	Plastic Bottle	5 kg

* All measurements in weights are in gr

Storage

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

* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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