



TG-LH-FBPE-80F

Fast Cure Flexible Black Potting Epoxy

Version 1.061219

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TG-LH-FBPE-80F is a low viscosity, two-part flexible black 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 mixed epoxy has low viscosity to ensure good flow, good seepage into every corner and minimal trapping of bubbles. TG-LH-FBPE-80F is the fastest curing epoxy T-Global Technology offers.

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

Potting epoxy for electrical and electronic devices

Properties

✓ ROHS Compliant

Property	TG-LH-FBPE-80F			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	-	-	-
Thermal Conductivity	-	-	1.1	W/mK	ISO/DIS 22007
Shelf life, 25°C	12	12	-	Month	-
Pot life, 25°C	-	-	1.5	Hour	-
Viscosity, CAP2000+ viscometer, 25°C	22,200	140	1,700	cP	ASTM D1084
Hardness, cured 25°C for 7 days	-	-	80	Shore A	ASTM D2240
Water boil, wt gain, 24 hr	-	-	1.0	%	-
Ionic content, Cl	-	-	>500	ppm	-
Electrical resistivity	-	-	10 ¹⁶	ohm/cm	-
Filler type	Metal oxide	-	-	-	-

Standard Packaging

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

* All measurements in weights are in gr

Recommended Cure

Alternative Cure	Temp. (°C)	Cure Time
A	25	24 hr
B	50	4 hr

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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