



# **TG-LH-FBPE-80** Flexible Black Potting Epoxy

Version 4.040320

# 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

	TG-LH-FBPE-80				
Property	Part A Resin	Part B Hardener	Mixed	Units	Test Method
Chemical type	Ероху	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	-	-	1016	Ω-m	-
Filler Type	Metal Oxide	-	-	-	-
Maximum Operating Temperature	-	-	150	°C	-
Glass Transition Temperature $(T_{_g})$	-	-	24	°C	-
CTE1 (Coefficient of Thermal Expansion before (T <sub>g</sub> ))	-	-	40	ppm/K	-
CTE2 (Coefficient of Thermal Expansion before (Tg))	-	-	181	ppm/K	-

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# Standard Packaging

	Pot	<b>Weight</b> (gr)		
Size	Plastic Bottle	1 kg		
	Plastic Bottle	5 kg		
* All model rements in weights are in an				

\* 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.

T-Global Technology Limited 1 & 2 Cosford Business Park, Central Park, Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510 Email: sales@tglobaltechnology.com Web: www.tglobaltechnology.com VAT #: GB 116 662 714