



# TG-LH-FBPE-80

## Flexible Black Potting Epoxy

REACH Compliant RoHS Compliant

### Features

- Thermal Conductivity 1.1 W/mK
- 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

Electronic components - Electrical and electronic devices

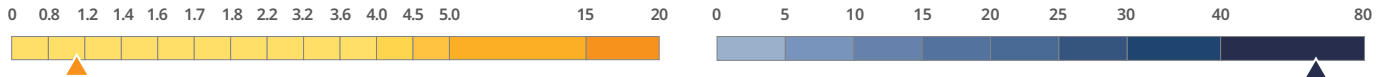
### Standard Sizes

Pot (Plastic Bottle)  
0.75kg  
3kg  
15kg  
30kg

### Properties

Thermal Conductivity : 1.1 W/mK

Hardness : 65 (Shore A)



Properties	Part A Resin	Part B Hardener	Mixed	Unit	Test Method
Thermal Conductivity	-	-	1.1	W/mK	ASTM D5470
Chemical type	Epoxy	Amine	-	-	-
Colour	Black liquid	Clear, yellowish liquid	-	-	Visual
Mix ratio, by weight	2.0	1.0	-	-	-
Viscosity, CAP2000+ viscometer, 25° C	22,200	140	3,200	cP	ASTM D1084
Hardness, cured 25° C for 7 days	-	-	65	Shore A	ASTM D2240
Water boil, weight gain, 24 hour	-	-	1.0	%	-
Ionic content, Cl	-	-	>500	ppm	-
Ionic content, K	-	-	N.D.	-	-
Ionic content, Na	-	-	N.D.	-	-
Electrical resistivity	-	-	10 <sup>16</sup>	ohm/cm	-
Filler type	Metal oxide	-	-	-	-
Maximum Operating Temperature	-	-	200	° C	-
Glass Transition Temperature (T <sub>g</sub> )	-	-	24	° C	-
CTE1 (Coefficient of Thermal Expansion before (T <sub>g</sub> ))	-	-	40	ppm/K	-
CTE2 (Coefficient of Thermal Expansion after (T <sub>g</sub> ))	-	-	181	ppm/K	-
Shelf life, 25° C	12	12	-	Month	-
Pot life, 25° C	-	-	6	Hour	-

### Recommended Cure

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

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

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