



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

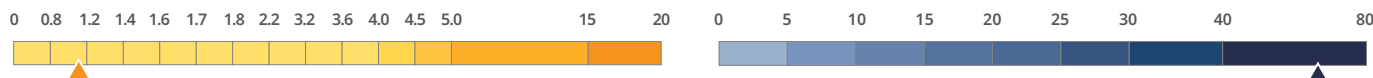
Standard Sizes

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 ¹⁶	ohm/cm	-
Filler type	Metal oxide	-	-	-	-
Maximum Operating Temperature	-	-	200	° C	-
Glass Transition Temperature (T _g)	-	-	24	° C	-
CTE1 (Coefficient of Thermal Expansion before (T _g))	-	-	40	ppm/K	-
CTE2 (Coefficient of Thermal Expansion after (T _g))	-	-	181	ppm/K	-
Shelf life, 25° C	12	12	-	Month	-
Pot life, 25° C	-	-	6	Hour	-
Dielectric Strength	-	-	Passed	5kV	ASTM D149-09

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.

T-Global Technology (Europe & North America) Limited

Units 1-2 Cosford Business Park, Central Park, Lutterworth, Leicestershire, LE17 4QU, United Kingdom
T +44 (0)1455 553 510 **E** sales@tglobaltechnology.com **W** www.tglobaltechnology.com

Version 5
20210216

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