



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

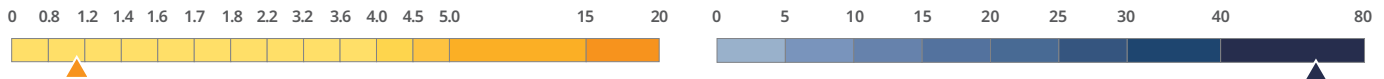
Standard Sizes

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	-

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



T-Global Technology are proud to announce the launch of a new company logo and mission statement as part of the ongoing growth and evolution of our company's brand.

NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film does not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality, and except to the extent otherwise stated in T-Global Technology's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.