



# TG4040-2K

## Thermally Conductive 2-Part Liquid Gap Filler

Version 1.130819



### Thermally Conductive 2-Part Liquid Gap Filler

TG4040-2K is a thermally conductive, two part, liquid gap filler which can be cured in place for optimum performance and ease of manufacture. TG4040-2K can be used to offer optimum thermal transfer for fragile components of where surface topography precludes the use of conventional materials. Once cured, TG4040-2K offers reliable thermal management and prevents many of the issues associated with stresses due to CTE mismatches.

### Features

- Smooth surface & low contact resistance
- Usable over a wide temperature range
- Electrical insulation
- High breakdown voltage
- Complies with UL standards

### Applications

- Automotive electronics
- Fibre optic telecommunications equipment
- Consumer electronics

### Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG4040-2K	Unit	Tolerance	Test Method
Colour	Blue	-	-	Visual
Thermal Conductivity	3.5	W/mK	-	ASTM D5470
Volume Resistivity	10 <sup>12</sup>	Ohm-cm	-	ASTM D257
Density	3.0	g/cm <sup>2</sup>	-	ASTM D792
Operating Temperature	20 to 30	°C	-	-
Working Temperature	-50 to 200	°C	-	-
Working Temperature (short term)	288	°C	-	-
Flame Rating	V-0	-	-	UL 94
Hardness	40	Shore 00	-	ASTM D2240
Viscosity	200	pas	-	ASTM D2196
Pot Life @ 25°C	60	Minutes	-	-
Cure Time @ 25°C	90-180	Minutes	-	-
Cure Time @ 100°C	3	Minutes	-	-
Cure Time @ 150°C	1	Minutes	-	-

### Reliability

Thermal Impedance	Initial	250 hr	500 hr	1000 hr
125°C Aging	0.17	0.19	0.18	0.18
85°C / 85% RH	0.17	0.19	0.18	0.19

### Storage

TG4040-2K has a shelf live of 12 months from the date of manufacture., as indicated by the lot number, when stored in the original, unopened container.

\* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

**NOTICE:** The information contained herein is to the best of our knowledge true and accurate. However, 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 Europe and North America'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.

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