



#### **Features**

# Applications

**TG-V Series** 

REACH Compliant RoHS Compliant

 With the good flow ability over phase change temperature, surface irregularities can be well filled
Low thermal impedance **Electronic components** - Electric Vehicles, 5G, Autopilot System, Mobile Phone, AIOT, HPC (High Performance Computing), Server, IC, CPU, MOS, LED, Mother Board, Power Supply, Heat Sink, LCD-TV, Notebook, PC, Telecom Device, Wireless Hub, DDR II Module, etc.

**Thermal Phase Change Materials** 

### Properties

## Thermal Conductivity: 3.3(TG-V833) / 3.8(TG-V838) W/mK



Properties	TG-V833	TG-V838	Unit	Tolerance	Test Method
Thermal Conductivity	3.3	3.8	W/mK	±10%	ASTM D5470
Thickness	0.13/0.2/0.3		mm	-	ASTM D374
	0.005/0.008/0.0118		inch	-	ASTM D374
Colour	Grey		-	-	Visual
Phase Transition Temperature	50		°C	-	-
Breakdown voltage(AC)	1		KV	-	ASTM D149
Density	3.4	2.5	g/cm <sup>3</sup>	±0.3	ASTM D792
Continuous Working Temperature	-40~+125		°C	-	-
Volume Resistance	3×10 <sup>11</sup>	3×10 <sup>10</sup>	Ohm-m	-	ASTM D257
Thermal Impedance@50psi	0.0143	0.013	° C-cm²/W	-	Modified ASTM D5470
Dielectric Constant @1KHz	13.3		-	-	ASTM D412

Pre-cut for different shapes

#### T-Global Technology (Europe & North America) Limited



Version17

20200501

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.

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

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.