



TG-V833

Phase Change Materials

REACH Compliant RoHS Compliant

Features

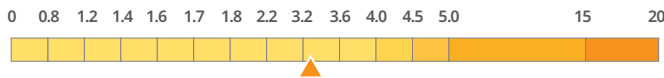
- Good flow rate over phase change temperature
- Fully filled the gaps of contact surface
- Low thermal impedance

Applications

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Properties

Thermal Conductivity : 3.3 W/m·K



Properties	Unit	TG-V833	Tolerance	Test Method
Thermal Conductivity	W/m·K	3.3	±10%	ASTM D5470 Modified
Thickness	mm	0.13	-	ASTM D374
	inch	0.005	-	ASTM D374
Color	-	Gray	-	-
Phase Transition Temperature	°C	50	-	-
Breakdown Voltage(AC)	kV	≥1	-	ASTM D149
Density	g/cm ³	3.4	±0.3	ASTM D792
Operating Temperature	°C	-40~+125	-	-
Volume Resistivity	Ohm·m	3×10 ¹¹	-	ASTM D257
Thermal Impedance @10psi	°C *in ² /W	0.621	-	ASTM D5470 Modified
Thermal Impedance @30psi	°C *in ² /W	0.544	-	ASTM D5470 Modified
Thermal Impedance @50psi	°C *in ² /W	0.512	-	ASTM D5470 Modified
Dielectric Constant @1MHz	-	13.3	-	ASTM D150

※Die-cut for different shapes

T-Global Technolgy Co., Ltd.

No.33, Ln.50, Daren Rd., Taoyuan Dist., Taoyuan City 330058, Taiwan

T +886-3-361-8899 E service@tglobalcorp.com W www.tglobalcorp.com

Version20
20250214



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 and release paper do 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 with out 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.