



TG-V838 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

Application:

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: 3.8 W/m•K

0 0.8 1.2 1.4 1.6 1.7 1.8 2.2 3.2 3.6 4.0 4.5 5.0

Properties	Unit	TG-V838	Tolerance	Test Method
Thermal Conductivity	W/m•K	3.8	±10%	ASTM D5470 Modified
Thickness	mm	0.13/0.2	-	ASTM D374
	inch	0.005/0.008	-	ASTM D374
Color	-	Gray	-	-
Phase Transition Temperature	° C	50	-	-
Breakdown Voltage(AC)	KV	≥1	-	ASTM D149
Density	g/cm³	2.5	±0.3	ASTM D792
Operating Temperature	° C	-40~+125	-	-
Volume Resistivity	Ohm-m	3×10 ¹⁰	-	ASTM D257
Thermal Impedance @10psi	°C *in²/W	0.546	-	ASTM D5470 Modified
Thermal Impedance @30psi	°C *in²/W	0.487	-	ASTM D5470 Modified
Thermal Impedance @50psi	°C *in²/W	0.454	-	ASTM D5470 Modified
Dielectric Constant @1MHz	-	13.3	-	ASTM D150

[※]Die-cut for different shapes

T-Global Techonology 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



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