

# TG-V838

## Phase Change Materials

REACH Compliant    RoHS Compliant

### Features

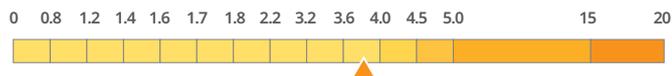
- Good flow rate over phase change temperature
- Fully filled the gaps of contact surface
- Low thermal impedance

### 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 : 3.8 W/m·K



Properties	Unit	TG-V838	Tolerance	Test Method
Thermal Conductivity	W/m·K	3.8	±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 <sup>3</sup>	2.5	±0.3	ASTM D792
Operating Temperature	°C	-40~+125	-	-
Volume Resistivity	Ohm·m	3×10 <sup>10</sup>	-	ASTM D257
Thermal Impedance @10psi	°C *in <sup>2</sup> /W	0.231	-	ASTM D5470 Modified
Thermal Impedance @30psi	°C *in <sup>2</sup> /W	0.120	-	ASTM D5470 Modified
Thermal Impedance @50psi	°C *in <sup>2</sup> /W	0.075	-	ASTM D5470 Modified
Dielectric Constant @1MHz	-	13.3	-	ASTM D150

※Die-cut for different shapes

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