



**THE DATASHEET OF
TG-A4040-54-45-2.0**





TG-A4040 / TG4040

Ultra Soft Thermal Pad

REACH Compliant RoHS Compliant UL Compliant

Features

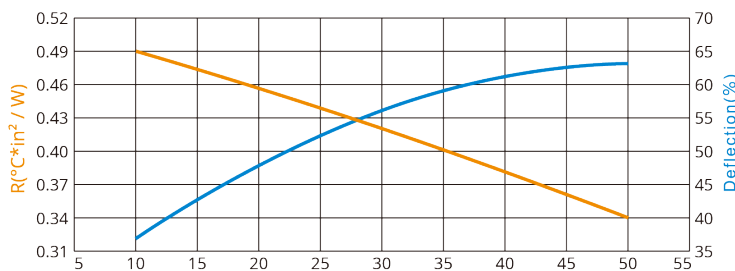
- Good thermal conductivity, Low thermal impedance
- Electrical Insulation
- High compressibility
- Increase the performance of electronics

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

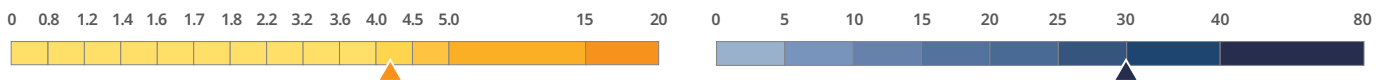
Thermal Resistance vs. Contact Pressure vs. Deflection



Contact Pressure (psi)	Thermal Impedance (°C*in²/W)	Deflection (%)
10	0.49	37
30	0.42	56
50	0.34	63

Thermal Conductivity : 4.2 W/mK

Hardness : 30 (Shore OO)



Properties	Unit	TG-A4040 / TG4040	Tolerance	Test Method
Thermal Conductivity	W/m·K	4.2	±10%	ASTM D5470 Modified
Thickness	mm	0.5~5.0	-	ASTM D374
	inch	0.0197~0.1969	-	ASTM D374
Color	-	Blue	-	Colorimeter CIE 1976
Flame Rating	-	V-0	-	UL 94
Dielectric Breakdown Voltage	KV/mm	≥15.3	-	ASTM D149
Weight Loss	%	<1	-	ASTM E595 Modified
Density	g/cm³	2.8	±5%	ASTM D792
Operating Temperature	°C	-45~+200	-	-
Volume Resistivity	Ohm-m	>10 ¹⁰	-	ASTM D257
Elongation	%	100	-	ASTM D412
Tensile Strength	kgf/cm²	1	-	ASTM D412
Standard Format	-	Sheet	-	-
Hardness	Shore OO	35	±10	ASTM D2240

- ※For thicknesses less than 1.0mm, hardness will be adjusted to 50-75 Shore OO to facilitate effective removal of liner during production
- ※Different tolerances according to the selected thickness
- ※Die-cut for different shapes

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