TG4040 超軟導熱矽膠
Ultra Soft Thermal Pad

t-global TECHNOLOGY
www.tglobal.com.tw

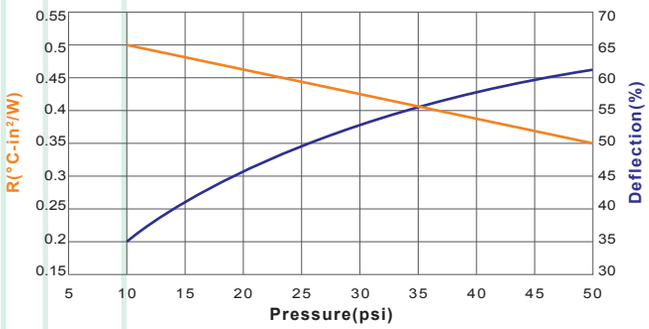
產品特性 Features

Solve the problems with thermal conduction, electrical insulation, and buffering
High thermal conduction, low thermal resistance, and high compressibility
Increase the performance of electronics
有效解決關於導熱、絕緣與緩衝等問題
具超高導熱效能、低熱阻、高絕緣性與極高壓縮性
提升元件的工作效能

產品應用端 Applications

Best for high power applications 極適用於高功率電子產品
Electronic components: IC, CPU, MOS, LED, M/B, P/S, Heat sink, LCD-TV, Notebook, PC, Telecom device, Wireless hub, etc.

熱阻抗VS.壓力VS.變形量示意圖 Thermal Resistance VS. Pressure VS. Deflection

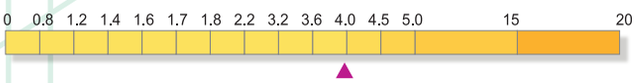


Pressure(psi)	R(°C-in²/W)	Deflection(%)
10	0.5	36
30	0.43	54
50	0.35	61

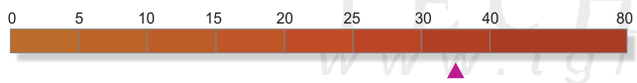
產品物性 Properties

REACH Compliant 符合REACH規範 RoHS Compliant 符合RoHS規範 UL Compliant 符合UL規範

Thermal Conductivity 導熱係數 : 4.0 W/mK



Hardness 軟硬度 : 35 (Shore 00)



Testing sample thickness: 1.0mm
In "Thermal resistance V.S. Pressure V.S. Deflection" chart, TG4040 provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower, and deflection percentage gets higher. TG4040 provides good compliance and softness.

Properties	TG4040	Unit	Tolerance	Test Method
Thermal Conductivity 導熱係數	4	W / mK	±0.4	ASTM D5470
Thickness 厚度	0.5~5.0	mm	-	ASTM D374
	0.0197~0.1969	inch	-	ASTM D374
Color 顏色	Blue藍	-	-	Visual目視
Flame Rating 耐燃等級	V-0	-	-	UL 94
Dielectric Breakdown Voltage 耐電壓	15	KV / mm	±1.5	ASTM D149
Weight Loss 重量損失	<1	%	-	ASTM E595
Specific Gravity 比重	2.8	g / cm³	±0.2	ASTM D792
Working Temperature 工作溫度	-45~+200	°C	-	-
Volume Resistance 體積阻抗	>10¹²	Ohm-cm	-	ASTM D257
Elongation 延展率	100	%	-	ASTM D412
Tensile Strength 抗拉強度	1	Kgf / cm²	-	ASTM D412
Standard Shape 標準形狀	Sheet ones單片狀	-	-	-
Hardness 硬度	35	Shore 00	±10	ASTM D2240

Need samples?樣品需求? Pre-cut for different shapes可依需求沖型裁切

X y z
TG4040 - 15 - 20 - 3 , 20
1 2 3

1. Choose the P/N
2. Fill into size: x,y,z
3. Fill the quantity you need