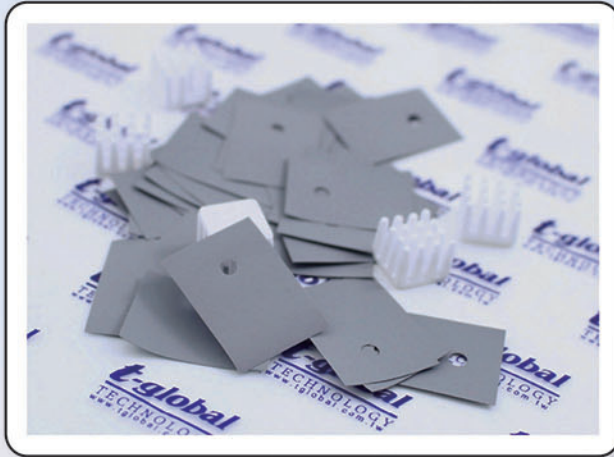


# Ti900 導熱複合材料 Thermal Insulator



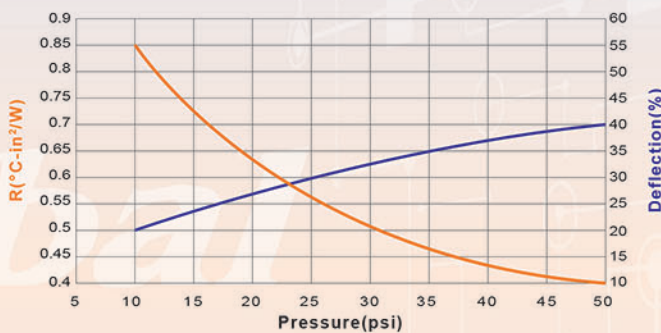
## 產品特性 Features

Insulation strength 電氣絕緣  
Low thermal resistance 0.402 (K-in<sup>2</sup>/W) @ 50psi 低熱阻  
Easy to assemble 容易施工

## 產品應用端 Applications

Electronic components: IC, CPU, MOS, LED,  
Mother Board, Power Supply, Heat Sink, LCD-TV,  
Notebook, PC, Telecom Device, Wireless Hub,  
DDR II Module, DVD Applications, Hand-set applications etc.

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



| Pressure (psi) | R (°C-in <sup>2</sup> /W) | Deflection (%) |
|----------------|---------------------------|----------------|
| 10             | 0.85                      | 20             |
| 30             | 0.51                      | 33             |
| 50             | 0.40                      | 40             |

## 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

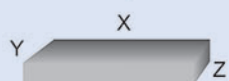
Testing sample thickness: 0.12mm

In "Thermal resistance V.S. Pressure V.S Deflection" chart, Ti900 provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower, and deflection percentage stays approximately the same.

| Properties                  | Ti900             | Unit   | Tolerance | Test Method |
|-----------------------------|-------------------|--------|-----------|-------------|
| Thermal Conductivity 導熱係數   | 1.8               | W / mK | ±0.18     | ASTM D5470  |
| Thickness 厚度                | 0.12              | mm     | -         | ASTM D374   |
| Color 顏色                    | Gray 灰            | -      | -         | Visual 目視   |
| Base 基材                     | Polyimide         | -      | -         | -           |
| Insulation Strength Vac 耐電壓 | 6                 | KV     | -         | ASTM D149   |
| Volume resistance 體積阻抗      | >10 <sup>12</sup> | Ohm-m  | -         | ASTM D257   |
| Working temperature 工作溫度    | -50~180           | °C     | -         | -           |
| Tensile Strength 抗拉強度       | 5000              | psi    | -         | ASTM D412   |
| Elongation 延展率              | 40                | %      | -         | ASTM D412   |
| Flame rating 耐燃等級           | V-0               | -      | -         | UL 94       |
| Standard Shape 標準形狀         | Sheet ones 單片狀    | -      | -         | -           |

Need samples? 樣品需求?

Pre-cut for different shapes 可依需求沖型裁切



Ti900 -  $\frac{X}{1}$  -  $\frac{Y}{2}$  -  $\frac{Z}{3}$  - 20

1. Choose the P/N
2. Fill into size: X,Y,Z
3. Fill the quantity you need