

H48-2 導熱矽膠 Thermal Pad



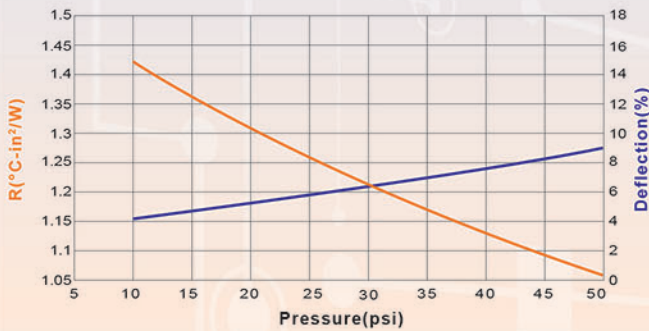
產品特性 Features

- Good thermal conductivity 良好導熱性
- Low oil-bleed 低出油量
- Moderate hardness 軟硬度適中
- Good insulator 電氣絕緣
- Shock & vibration absorber 可做為振動衝擊吸收體

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

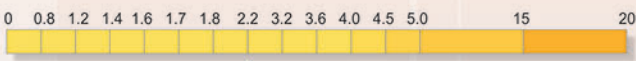


| Pressure (psi) | R (°C-in²/W) | Deflection (%) |
|----------------|--------------|----------------|
| 10 | 1.43 | 4 |
| 30 | 1.21 | 7 |
| 50 | 1.06 | 9 |

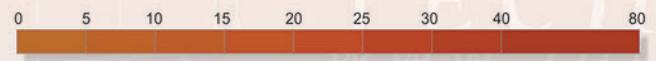
產品物性 Properties

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 : 2.2 W/mK



Hardness 軟硬度 : 25 (Shore A)

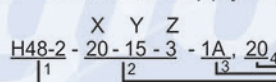
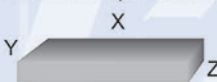


Testing sample thickness: 1.0mm

In "Thermal resistance V.S. Pressure V.S. Deflection" chart, H48-2 provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower, and deflection percentage gets higher. H48-2 provides good compliance and softness.

| Properties | H48-2 | Unit | Tolerance | Test Method |
|--|-------------------|-----------------------|-----------|-------------|
| Thermal Conductivity 導熱係數 | 2.2 | W / mK | ±0.22 | ASTM D5470 |
| Thickness 厚度 (the thickness can be ordered) (可依客戶所需厚度生產) | 0.3~20 | mm | - | ASTM D374 |
| | 0.0118~0.787 | inch | - | ASTM D374 |
| Color 顏色 | Dark red 深紅 | - | - | Visual 目視 |
| Flame Rating 耐燃等級 | V-0 | - | - | UL 94 |
| Dielectric Breakdown Voltage 耐電壓 | 5 | KV / mm | ±0.5 | ASTM D149 |
| Weight Loss 重量損失 | <1 | % | - | ASTM E595 |
| Density 密度 | 2.43 | g / cm ³ | ±0.2 | ASTM D792 |
| Working Temperature 工作溫度 | -40~+200 | °C | - | - |
| Volume Resistance 體積阻抗 | >10 ¹² | Ohm-m | - | ASTM D257 |
| Elongation 延展率 | 282 | % | - | ASTM D412 |
| Tensile Strength 抗拉強度 | 7 | Kgf / cm ² | - | ASTM D412 |
| Standard Shape 標準形狀 | Sheet ones 單片狀 | - | - | - |
| Hardness 硬度 | 25 | Shore A | ±5 | ASTM D2240 |

Need samples? 樣品需求? Available to apply adhesive 可依需求背膠 Pre-cut for different shapes 可依需求沖型裁切



1. Choose the P/N
2. Fill into size: X, Y, Z
3. Apply the adhesive or not? 0=none, 1A= one side, 2A= two sides
4. Fill the quantity you need