

## THERMAL PAD - DT08

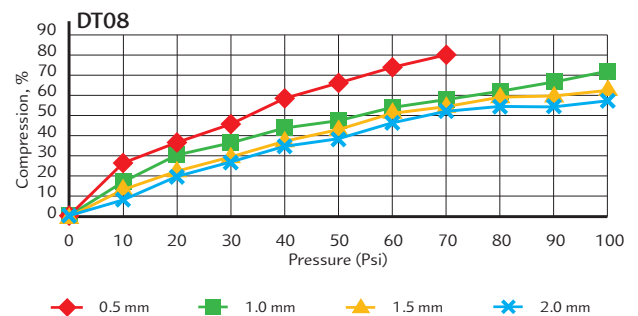
### Features

- Thermal conductivity: 0.8 W/mK
- DT08 is available with two different hardnesses: Shore 18 C (DT08/H18) and Shore 35 C (DT08/H35)
- High conformability
- Cost effective solution
- Electrically insulating
- Naturally sticky
- High dielectric breakdown of up to 4.0 kV/mm
- Custom die-cut parts: custom configurations available



### Applications

- Between electronic components: semiconductors, ICs, CPUs, MOS and heatsink
- LEDs, LCD TV, telecom devices, wireless hubs, PCs, power supply etc.
- Cooling and thermal modules
- In all applications where a metal housing is used as heatsink.



Part number code (example):

UDT 10/H10 - T 10

→ Thickness: 1.0 mm  
 → Hardness: 10 Shore C  
 → Thermal Conductivity: 1.0 W/mK  
 → UDT: Thermal Pad



### TECNITE DT08

| Properties                  | Unit     | DT08                                                                                                                                                                                                                                                                               | Test Method   |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Composition                 |          | Silicone & ceramic filled                                                                                                                                                                                                                                                          |               |
| Colour                      |          | Grey                                                                                                                                                                                                                                                                               |               |
| Thickness range             | mm       | 0.5 -12.0                                                                                                                                                                                                                                                                          |               |
| Hardness                    | Shore C  | 18 (DT08/H18) & 35 (DT08-H35)                                                                                                                                                                                                                                                      | ASTM D2240    |
| Density                     | g/ml     | 2                                                                                                                                                                                                                                                                                  | ASTM D792     |
| Elongation                  | %        | 1.35                                                                                                                                                                                                                                                                               | ASTM D412     |
| Temperature range           | °C       | -40 to 150                                                                                                                                                                                                                                                                         | EN344         |
| Breakdown voltage           | kV/mm    | ≥4.0                                                                                                                                                                                                                                                                               | ASTM D149     |
| Volume impedance            | ohm*cm   | 1.7*10 <sup>16</sup>                                                                                                                                                                                                                                                               | ASTM D257     |
| Dielectric constant         | @ 1 MHz  | 4.51                                                                                                                                                                                                                                                                               | ASTM D150     |
| Weight dampify              | %        | ≥1                                                                                                                                                                                                                                                                                 | @ 150 °C 240H |
| Thermal conductivity        | W/mK     | 0.8                                                                                                                                                                                                                                                                                | ASTM E1461    |
| Thermal Resistance @ 40 psi | °C-in²/W | DT08/H18: 0.968 @ 0.5 mm<br>DT08/H35: 1.483 @ 0.5 mm<br>DT08/H18: 1.713 @ 1.0 mm<br>DT08/H45: 2.324 @ 1.0 mm                                                                                                                                                                       |               |
| Compliances                 |          | UL 94 V-0, RoHS, REACH                                                                                                                                                                                                                                                             |               |
| Sheet sizes                 |          | Standard: 200*400 mm, 330*330 mm                                                                                                                                                                                                                                                   |               |
| Custom configurations       |          | Custom die-cut parts available.<br>Available with acrylic PSA tape for improved application on on or both sides:<br>• 3M Double Coated Tape 9448HK (will make the pad 0.15 mm thicker on both sides)<br>• 3M Transfer Tape 3M467 (will make the pad 0.06 mm thicker on both sides) |               |

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