

## THERMAL PAD - DT12

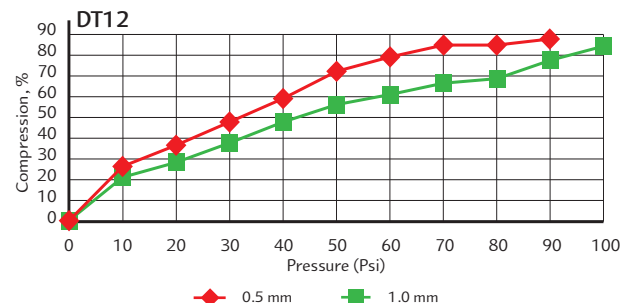
### Features

- Thermal conductivity: 1.2 W/mK
- High conformability
- Cost effective solution
- Electrically insulating
- Naturally sticky
- High dielectric breakdown of up to 6.5 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 DT12

| Properties                  | Unit                  | DT12                                                                                                                                                                                                                                                                                | Test Method   |
|-----------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Composition                 |                       | Silicone & ceramic filled                                                                                                                                                                                                                                                           |               |
| Colour                      |                       | Pink                                                                                                                                                                                                                                                                                |               |
| Thickness range             | mm                    | 0.5 -12.0                                                                                                                                                                                                                                                                           |               |
| Hardness                    | Shore C               | 15                                                                                                                                                                                                                                                                                  | ASTM D2240    |
| Density                     | g/ml                  | 2.3                                                                                                                                                                                                                                                                                 | ASTM D792     |
| Elongation                  | %                     | 70                                                                                                                                                                                                                                                                                  | ASTM D412     |
| Temperature range           | °C                    | -40 to 150                                                                                                                                                                                                                                                                          | EN344         |
| Breakdown voltage           | kV/mm                 | ≥6.5                                                                                                                                                                                                                                                                                | ASTM D149     |
| Volume impedance            | ohm*cm                | 3.5*10 <sup>12</sup>                                                                                                                                                                                                                                                                | ASTM D257     |
| Dielectric constant         | @ 1 MHz               | 3.87                                                                                                                                                                                                                                                                                | ASTM D150     |
| Weight dampify              | %                     | ≥1                                                                                                                                                                                                                                                                                  | @ 150 °C 240H |
| Thermal conductivity        | W/mK                  | 1.2                                                                                                                                                                                                                                                                                 | ASTM E1461    |
| Thermal Resistance @ 40 psi | °C-in <sup>2</sup> /W | 1.118 @ 1.0 mm                                                                                                                                                                                                                                                                      |               |
| Compliances                 |                       | UL 94 V-0, RoHS, REACH                                                                                                                                                                                                                                                              |               |
| Sheet sizes                 |                       | Standard: 200*400 mm                                                                                                                                                                                                                                                                |               |
| Custom configurations       |                       | Custom die-cut parts available.<br>Available with acrylic PSA tape for improved application on one or both sides:<br>• 3M Double Coated Tape 9448HK (will make the pad 0.15 mm thicker on both sides)<br>• 3M 3M467 Transfer Tape (will make the pad 0.06 mm thicker on both sides) |               |

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