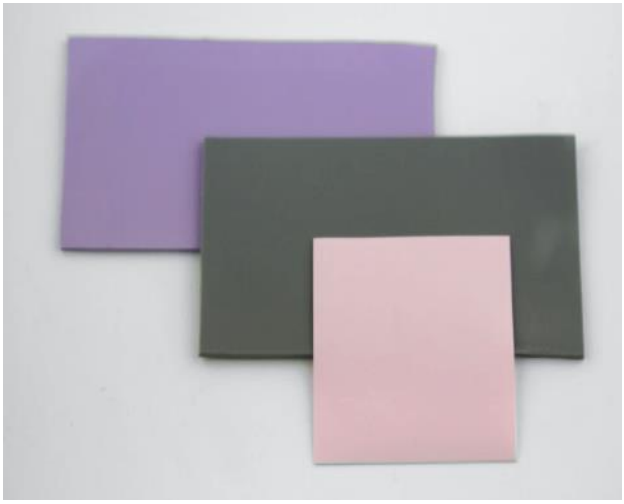
# GAP PADS
## TCGF-SERIES 1,8 W/m*K

**Thermally conductive gap fillers** offer, besides excellent thermal properties, the ability to even out small, medium and big gaps and tolerances between the component (hot spot) and the cooling device.

Gap fillers are based on silicone and are filled with ceramic particles. They are tacky by nature. This can be single- or double sided. The use of an adhesive tape is not necessary in most cases. Anyway a single- or double-sided adhesive is available on request.

- **Thermal conductivity: 1,8 W/m*K**
- **Available in 297x210 mm standard sheet size, other dimensions and die-cut parts on request**
- **Available in thicknesses from 0,5 to 5,0 mm**
- **Naturally both side tacky as standard, other options available**
- **Adhesive tape on request**
- **Based on silicone filled with ceramic particles**



RoHS ✓ REACH ✓ UL 94

## PRODUCT SPECIFICATIONS

| PROPERTY | VALUE / TOLERANCE | TEST METHOD |
|---|---|---|
| Composition | Silicone filled with ceramic particles | - |
| Thermal conductivity | 1,8 W/m*K | ASTM E1530 |
| Thermal impedance @ 60 Shore 00 / 2 mm thickness | 2,0 °C-in²/W | ASTM E1530 |
| Hardness | 40 – 65 Shore 00 ± 10 % | ASTM D2240 |
| Flammability rating | V-0 | UL 94, E360243 |
| Volume resistivity | $10^{13}$ Ω*cm | ASTM D257 |
| Dielectric breakdown voltage | >10 kV/mm | ASTM D149 |
| Working temperature range | -60 – 200 °C | - |
| Specific gravity | 2,55 g/cm³ | ASTM D792 |
| Thickness range (T) | 0,5 – 5,0 mm | ASTM D374 |
| Standard sheet size (LxW) | 297x210 mm | Caliper |
| Total mass loss (TML) | < 0,5% @ 24 h / 125°C vakuum | ASTM E595-15 |

Please note: Picture only shows an example of different gap pads.

## BUILDING AN ITEM NUMBER

**TCGF-1,8 Sxx #-LxWxT-XXX-YYY-ZZ**

| | |
|---|---|
| Thermally Conductive Gap Filler | |
| Thermal conductivity | |
| xx | Hardness (Shore 00) |
| F | Fiberglass reinforced |
| X | Not reinforced |
| xxx | Length (mm) |
| xxx | Width (mm) |
| xxx | Thickness (mm) |
| BNT | Both sides non-tacky |
| SST | One side tacky, one side non-tacky |
| BST | Both sides tacky |
| SAN | One side adhesive, one side non-tacky |
| SAT | One side adhesive, one side tacky |
| BSA | Both sides adhesive |
| DST | Die-cut parts |
| KCT | Kiss-cut parts |
| E1 | ESD foil (single side) |
| E2 | ESD foil (both sides) |

### Standard options

EXAMPLE

**TCGF-1,8 S60 F-35x17x6-BST-DST-E1**
Thermally conductive gap filler; thermal conductivity: 1,8 W/m*K; hardness: 60 Shore 00; fiberglass reinforced; size: 35x17 mm; thickness: 6 mm; both sides tacky; die-cut; ESD foil (single side)

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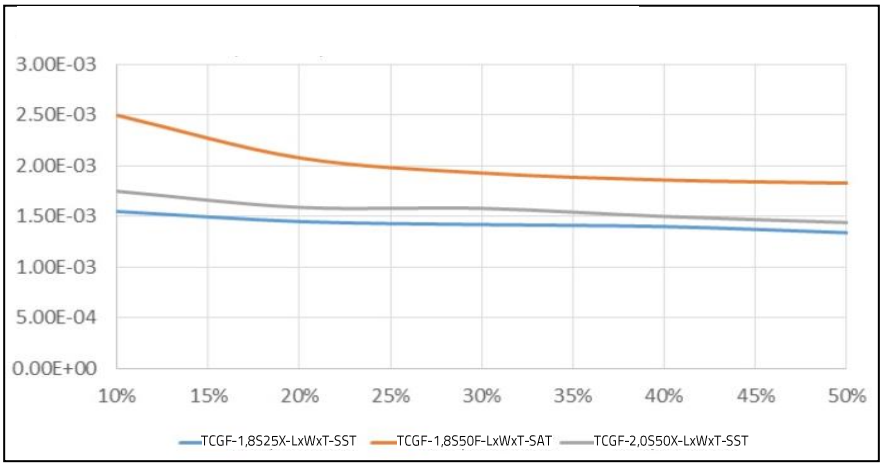
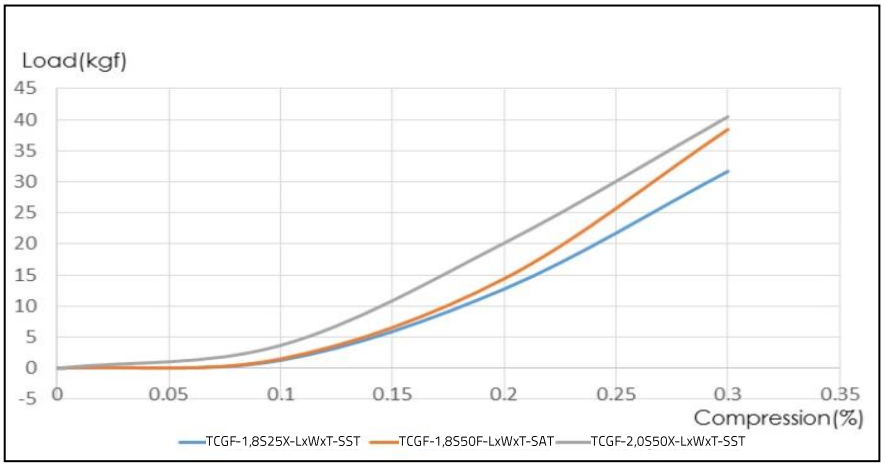
## THERMAL RESISTANCE (m² °C/W)




## COMPRESSIBILITY




## STANDARD THICKNESSES (mm)

0,5 | 0,8 | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 | 3,3 | 3,5 | 4,0 | 4,5 | 5,0

## STANDARD HARDNESSES

40 Shore 00 | 60 Shore 00 | 65 Shore 00

## TOLERANCES

| THICKNESS | | WIDTH AND HEIGTH | |
|---|---|---|---|
| 0 – 0,50 mm | +/- 0,05 mm | 0 – 50 mm | +/- 0,5 mm |
| 0,60 – 15 mm | +/- 10% | > 50 mm | +/- 1,0 mm |