

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: 5,0 W/m*K
- Available in 297x210 mm standard sheet size, other dimensions and die-cut parts on request
- Available in thicknesses from 0,25 to 10,0 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



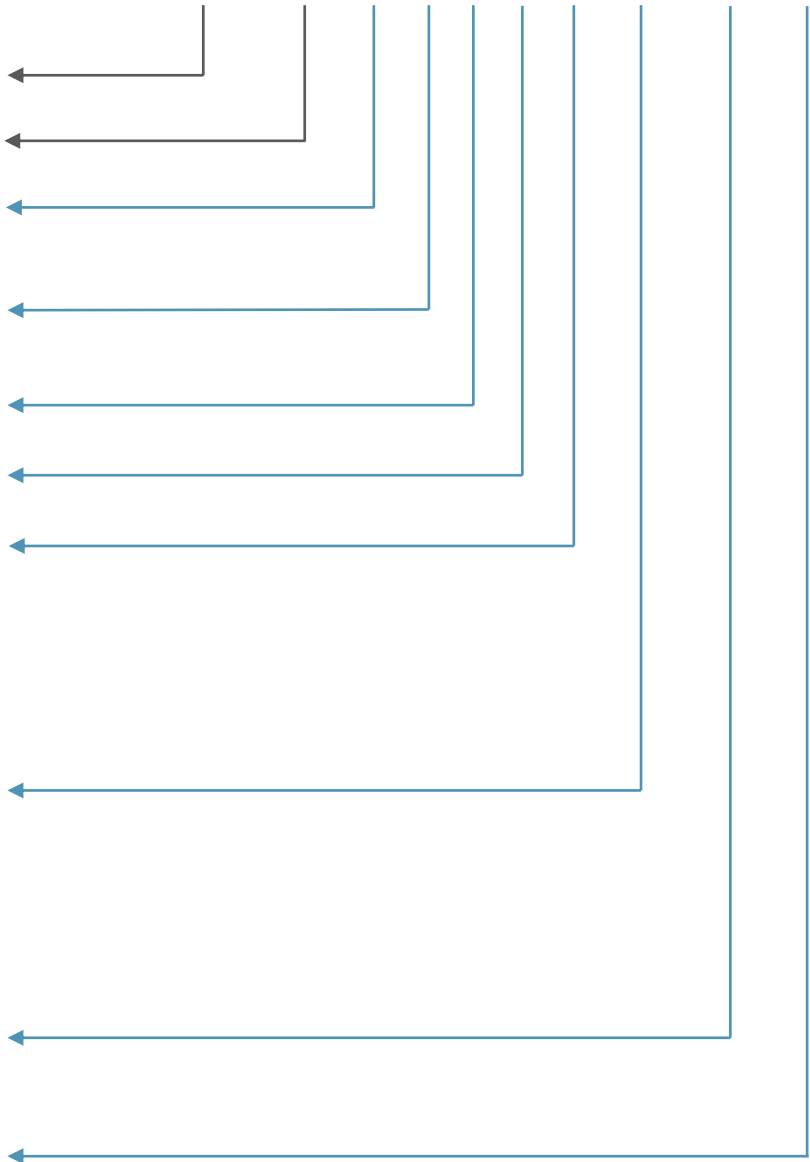
PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
THERMAL		
Thermal conductivity	5,0 W/m*K	ASTM E1530
Thermal impedance @ 65 Shore 00 4mm thickness	1,6 °C-in ² /W	ASTM E1530
ELECTRICAL		
Breakdown voltage	>8 kV/mm	ASTM D149
Volume resistivity	0,795*10 ¹³ Ω*cm	ASTM D257
PHYSICAL		
Composition	Silicone elastomer	-
Hardness	30 – 80 Shore 00 ± 10 %	ASTM D2240
Gravity	3,1 g/cm ³	ASTM D792
Thickness range	0,25– 10,0 mm	ASTM D374
Standard sheet size	297x210mm	caliper
Working temperature	-40 – 200 °C	-
Flammability rating	V-0	UL 94 E360243
Total mass loss TML	< 0,5% @ 24 h / 125°C vakuum	ASTM E595-15

BUILDING AN ITEM NUMBER

TCGF-5,0 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)

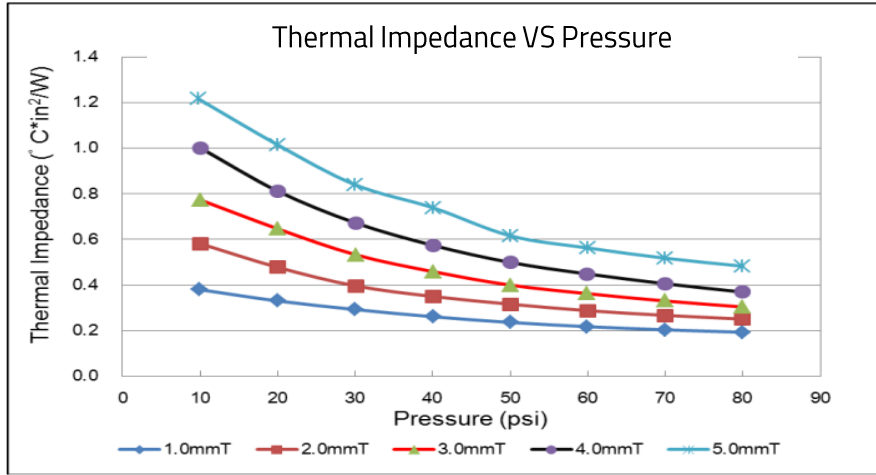


Standard options

EXAMPLE

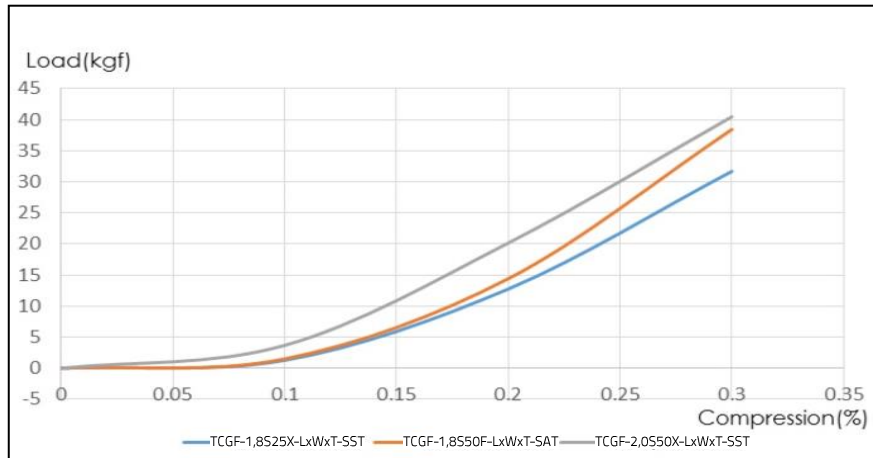
TCGF-5,0 S60 F-35x17x6-BST-DST-E1
 Thermally conductive gap filler; thermal conductivity: 5,0 W/m*K;
 hardness: 60 Shore 00; fiberglass reinforced; size: 35x17 mm;
 thickness: 6 mm; both sides tacky; die-cut; ESD foil (single side)

THERMAL RESISTANCE (m² °C/W)



Just for reference

COMPRESSIBILITY



Just for reference

TOLERANCES

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

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