

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: 1,5 W/m*K
- Available in 297x210 mm standard sheet size, other dimensions and die-cut parts on request
- Available in thicknesses from 0,1 to 18,0 mm
- Naturally both side tacky as standard, other options available
- Adhesive tape on request
- Based on silicone filled with ceramic particles

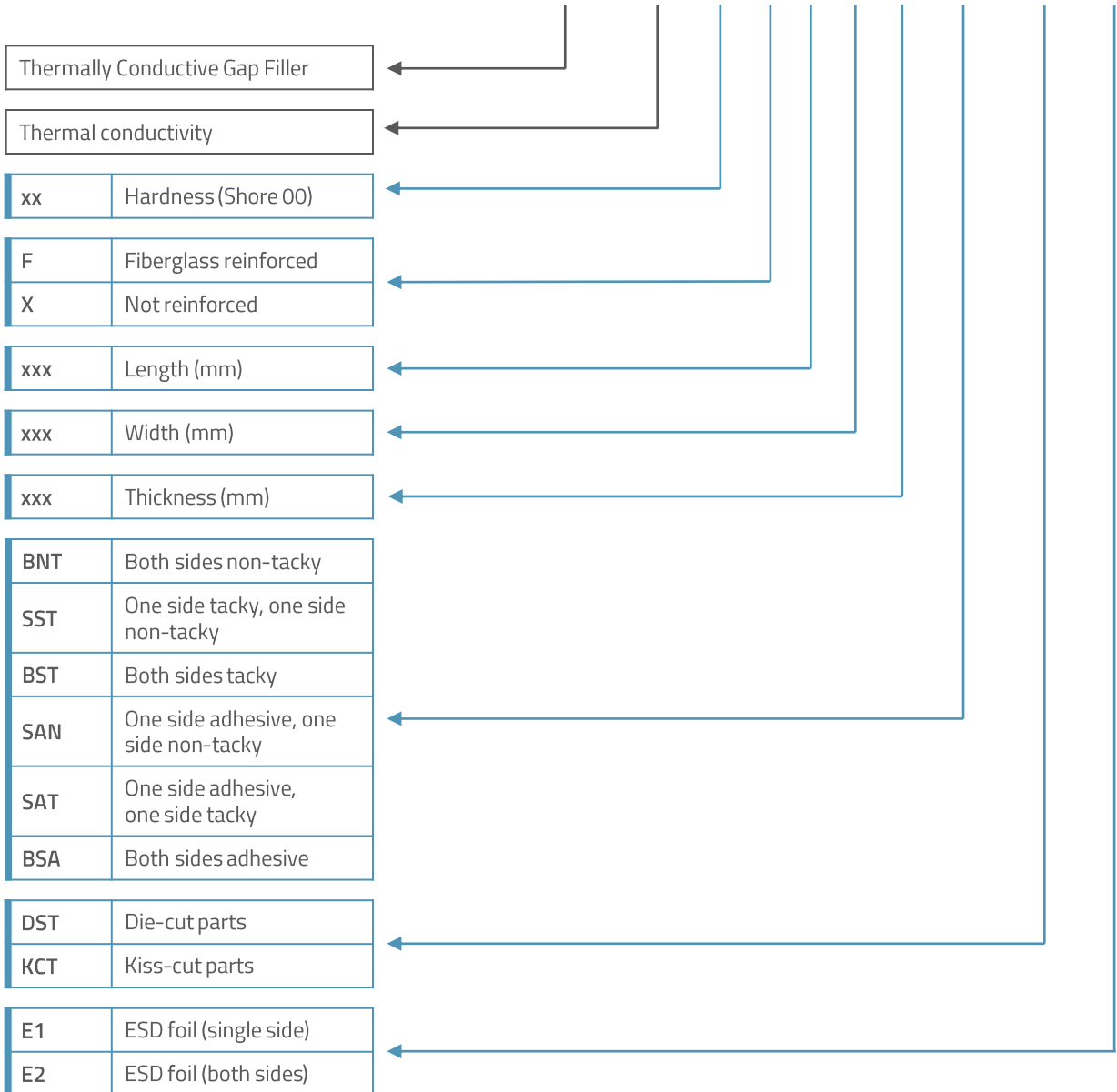


PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
THERMAL		
Thermal conductivity	1,5 W/m*K	ASTM E1530
Thermal impedance @ 40 Shore 00 2mm thickness	2,0 °C-in ² /W	ASTM E1530
ELECTRICAL		
Breakdown voltage	>10 kV/mm	ASTM D149
Dielectric constant	4,9 @ 30MHz	-
Volume resistivity	3*10 ¹³ Ω*cm	ASTM D257
PHYSICAL		
Composition	Silicone elastomer	-
Hardness	10 – 80 Shore 00 ± 10 %	ASTM D2240
Gravity	2,05 g/cm ³	ASTM D792
Thickness range	0,1 – 18,0mm	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-1,5 Sxx #-LxWxT-XXX-YYY-ZZ



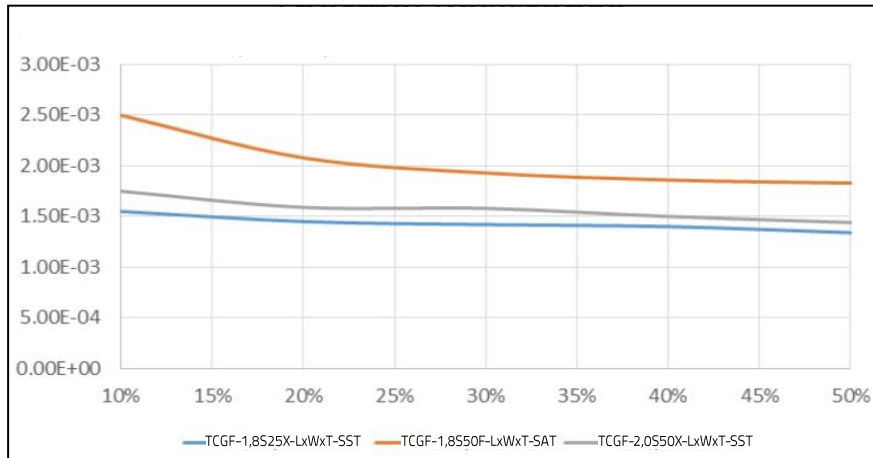
Standard options

EXAMPLE

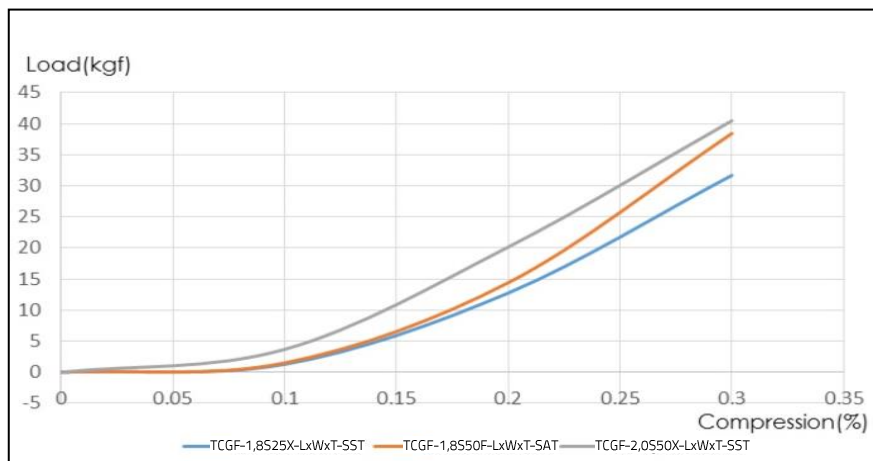
TCGF-1,5 S60 F-35x17x5-BST-DST-E1

Thermally conductive gap filler; thermal conductivity: 1,5 W/m*K; hardness: 60 Shore 00; fiberglass reinforced; size: 35x17 mm; thickness: 5 mm; both sides tacky; die-cut; ESD foil (single side)

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

20 Shore 00 | 40 Shore 00 | 50 Shore 00 | 60 Shore 00

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

Modifications and errors excepted. The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verifications and testings to determine the suitability for their own particular purpose of any information or products referred to herein.