



Tflex™ 500 Series Gap Filler Material

Highly Compressible Thermal Gap Filler with 2.8 W/m-K

Tflex™ 500 is a highly compressible gap filler designed to provide excellent thermal performance while remaining cost effective. This soft interface pad conforms well with minimal pressure, resulting in little or no stress on mating parts. Tflex 500's unique silicone formulation has extremely low silicone extractables compared to other silicone interface materials and also meets NASA outgassing requirements.

Tflex 500 is naturally tacky, requiring no adhesive coating to inhibit thermal performance. Tflex 500 is electrically insulating, stable from -45°C to 200°C and meets UL 94V0 rating.

Item #	Color	Thickness	Density	Hardness	Thermal Impedance at 10 psi	Thermal Impedance at 69 KPa
Tflex 520	Blue	0.020 inches 0.200 mm	3.00 g/cc	70 Shore OO	0.40 °C-in ² /W	2.56 °C-cm ² /W
Tflex 530	Blue	0.030 inches 0.762 mm	3.00 g/cc	70 Shore OO	0.54 °C-in ² /W	3.48 °C-cm ² /W
Tflex 540	Blue	0.040 inches 1.016 mm	3.00 g/cc	40 Shore OO	0.50 °C-in ² /W	3.23 °C-cm ² /W
Tflex 550	Blue	0.050 inches 1.270 mm	3.00 g/cc	40 Shore OO	0.57 °C-in ² /W	3.65 °C-cm ² /W
Tflex 560	Blue	0.060 inches 1.524 mm	3.00 g/cc	40 Shore OO	0.63 °C-in ² /W	4.07 °C-cm ² /W
Tflex 570	Blue	0.070 inches 1.778 mm	3.00 g/cc	40 Shore OO	0.70 °C-in ² /W	4.51 °C-cm ² /W
Tflex 580	Blue	0.080 inches 2.032 mm	3.00 g/cc	40 Shore OO	0.77 °C-in ² /W	4.96 °C-cm ² /W
Tflex 590	Blue	0.090 inches 2.286 mm	3.00 g/cc	40 Shore OO	0.84 °C-in ² /W	5.41 °C-cm ² /W
Tflex 5100	Blue	0.100 inches 2.540 mm	3.00 g/cc	40 Shore OO	0.91 °C-in ² /W	5.87 °C-cm ² /W
Tflex 5110	Blue	0.110 inches 2.794 mm	3.00 g/cc	40 Shore OO	0.98 °C-in ² /W	6.35 °C-cm ² /W
Tflex 5120	Blue	0.120 inches 3.048 mm	3.00 g/cc	40 Shore OO	1.06 °C-in ² /W	6.84 °C-cm ² /W
Tflex 5130	Blue	0.130 inches 3.302 mm	3.00 g/cc	40 Shore OO	1.14 °C-in ² /W	7.34 °C-cm ² /W
Tflex 5140	Blue	0.140 inches 3.556 mm	3.00 g/cc	40 Shore OO	1.22 °C-in ² /W	7.84 °C-cm ² /W
Tflex 5150	Blue	0.150 inches 3.810 mm	3.00 g/cc	40 Shore OO	1.30 °C-in ² /W	8.36 °C-cm ² /W
Tflex 5160	Blue	0.160 inches 4.064 mm	3.00 g/cc	40 Shore OO	1.38 °C-in ² /W	8.88 °C-cm ² /W
Tflex 5170	Blue	0.170 inches 4.318 mm	3.00 g/cc	40 Shore OO	1.46 °C-in ² /W	9.43 °C-cm ² /W
Tflex 5180	Blue	0.180 inches 4.572 mm	3.00 g/cc	40 Shore OO	1.55 °C-in ² /W	9.97 °C-cm ² /W
Tflex 5190	Blue	0.190 inches 4.826 mm	3.00 g/cc	40 Shore OO	1.63 °C-in ² /W	10.53 °C-cm ² /W
Tflex 5200	Blue	0.200 inches 5.080 mm	3.00 g/cc	40 Shore OO	1.72 °C-in ² /W	11.10 °C-cm ² /W