



Tflex™ 300 Series Gap Filler Material

Ultra Compliant, Thermal Gap Filler for High-Speed Computing and Telecommunications Applications

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Tflex™ 300 is a silicone gel combined with a ceramic powder to offer an unique combination of compliancy, thermal resistance and price.

Tflex™ 300, at pressures of 50 psi, deflect over 50% the original thickness. This high rate of compliancy allows the material to "totally blanket" the component, enhancing thermal transfer. The material has a very low compression set enabling the pad to be reused many times.

Tflex™ 300, in achieving its stellar compliancy, does not sacrifice thermal performance. With a thermal conductivity of 1.2 W/m-K, low thermal resistances can be achieved at low pressures. Tflex™ 300 is offered with a hard, metallized liner option for easy handling and improved rework. This metallized liner offers better thermal transfer than other silicone based liners found on comparable products. The metallized liner's lower coefficient of friction also allows for easy assembly of parts that must slide together, such as a card into a chassis.

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| Item # | Color | Thickness | Density | Hardness | Thermal Resistance at 10 psi | Thermal Resistance at 69 KPa |
|--------------|-------|--------------------------|-----------|-------------|------------------------------|------------------------------|
| Tflex 320 | Mint | 0.020 inches 0.510 mm | 1.78 g/cc | 56 Shore OO | 0.844 °C-in ² /W | 5.41 °C-cm ² /W |
| Tflex 330 | Mint | 0.030 inches 0.760 mm | 1.78 g/cc | 56 Shore OO | 1.050 °C-in ² /W | 6.74 °C-cm ² /W |
| Tflex 340-FG | Mint | 0.040 inches 1.020 mm | 1.78 g/cc | 56 Shore OO | 1.380 °C-in ² /W | 8.85 °C-cm ² /W |
| Tflex 340 | Mint | 0.040 inches 1.020 mm | 1.75 g/cc | 27 Shore OO | 1.444 °C-in ² /W | 7.34 °C-cm ² /W |
| Tflex 350 | Mint | 0.050 inches 1.270 mm | 1.75 g/cc | 27 Shore OO | 1.320 °C-in ² /W | 8.47 °C-cm ² /W |
| Tflex 360 | Mint | 0.060 inches 1.520 mm | 1.75 g/cc | 27 Shore OO | 1.490 °C-in ² /W | 9.56 °C-cm ² /W |
| Tflex 370 | Mint | 0.070 inches 1.780 mm | 1.75 g/cc | 27 Shore OO | 1.654 °C-in ² /W | 10.61 °C-cm ² /W |
| Tflex 380 | Mint | 0.080 inches 2.030 mm | 1.75 g/cc | 27 Shore OO | 1.812 °C-in ² /W | 11.62 °C-cm ² /W |
| Tflex 390 | Mint | 0.090 inches 2.290 mm | 1.75 g/cc | 27 Shore OO | 1.964 °C-in ² /W | 12.60 °C-cm ² /W |
| Tflex 3100 | Mint | 0.100 inches 2.540 mm | 1.75 g/cc | 27 Shore OO | 2.110 °C-in ² /W | 13.53 °C-cm ² /W |
| Tflex 3110 | Mint | 0.110 inches 2.790 mm | 1.75 g/cc | 27 Shore OO | 2.250 °C-in ² /W | 14.43 °C-cm ² /W |
| Tflex 3120 | Mint | 0.120 inches 3.050 mm | 1.75 g/cc | 27 Shore OO | 2.384 °C-in ² /W | 15.29 °C-cm ² /W |
| Tflex 3130 | Mint | 0.130 inches 3.300 mm | 1.75 g/cc | 27 Shore OO | 2.512 °C-in ² /W | 16.11 °C-cm ² /W |
| Tflex 3140 | Mint | 0.140 inches 3.560 mm | 1.75 g/cc | 27 Shore OO | 2.634 °C-in ² /W | 16.89 °C-cm ² /W |
| Tflex 3150 | Mint | 0.150 inches 3.810 mm | 1.76 g/cc | 27 Shore OO | 2.750 °C-in ² /W | 17.64 °C-cm ² /W |
| Tflex 3160 | Mint | 0.160 inches 4.060 mm | 1.75 g/cc | 27 Shore OO | 2.860 °C-in ² /W | 18.34 °C-cm ² /W |
| Tflex 3170 | Mint | 0.170 inches 4.320 mm | 1.75 g/cc | 27 Shore OO | 2.964 °C-in ² /W | 19.01 °C-cm ² /W |
| Tflex 3180 | Mint | 0.180 inches 4.570 mm | 1.75 g/cc | 27 Shore OO | 3.062 °C-in ² /W | 19.64 °C-cm ² /W |
| Tflex 3190 | Mint | 0.190 inches 4.830 mm | 1.76 g/cc | 27 Shore OO | 3.154 °C-in ² /W | 20.23 °C-cm ² /W |

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