



### SOFT, FREESTANDING GAP FILLER

Tflex™ 200 V0 is a very soft, freestanding gap filler that is more compliant than most other gap fillers. Combining good thermal conductivity of 1.1 W/mK with high conformability, this gap filler produces low thermal resistance. The alumina filler allows the product to remain a cost effective solution where moderate thermal performance is acceptable.

Tflex 200V0's silicone and ceramic technology allows a combination of great reliability, good thermal performance, and easy handling.

### FEATURES

- Soft and compliant for low stress applications
- Naturally tacky needing no further adhesive coating
- 1.1 W/mK thermal conductivity
- Available in thicknesses from 0.020" (0.51mm) to 0.200" (5.0mm)

### APPLICATIONS

- Cooling components to the chassis or frame
- High speed mass storage drives
- RDRAM memory modules
- Heat pipe thermal solutions
- Automotive engine control units
- Wireless communication hardware

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# Tflex™ 200 V0 Series

## Thermal Gap Filler

	TFLEX™ 200 V0	TEST METHOD
Construction & Composition	Ceramic filled silicone sheet	
Color	Light Gray	Visual
Thickness Range	0.020" (0.51mm) - 0.200" (5.08mm)	
Thickness Tolerance	± 10%	
Density (g/cc)	1.73	Helium Pycnometer
Hardness	60 Shore 00	ASTM D2240
Outgassing Conditions	Post Cured	
Outgassing TML (weight %)	0.34%	ASTM E595
Outgassing CVCM (weight %)	0.10%	ASTM E595
UL Flammability Rating	94 VO	UL FILE E1808040
Temperature Range	-45°C to 160°C	
Thermal Conductivity	1.1 W/mK	Hot Disk
Thermal Resistance		
@ 40 mils, 10 psi	1.57°C-in²/W	ASTM D5470
@ amm, 69kPa	10.13°C-cm²/W	(modified)
Coefficient of Thermal Expansion	229 ppm/°C 35°C to 130°C	IPC-TM-650 2.4.24
Volume Resistivity	4 x 10 <sup>13</sup> ohm-cm	ASTM D257
Dielectric Constant @ 1MHz	5.5	

### STANDARD THICKNESSES

0.020 to 0.200-inch (0.5 to 5.0mm)

0.020 to 0.200-inch thick material available in 0.010-inch (0.25mm) increments

Inquire about availability of material and options above 0.200-inches

### STANDARD SHEET SIZES

18" x 18" (457mm x 457mm) and 9" x 9" (229mm x 229mm) Tflex™ 200V0 may be die cut into individual shapes. Pressure sensitive adhesive is not applicable for Tflex™ 200V0 products.

### REINFORCEMENT

0.020" (0.51mm) and 0.030" (0.762mm) are fiberglass reinforced.

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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