

ThermaCool® TC2006

Saint-Gobain Performance Plastics **ThermaCool® TC2006** is an economical, soft ceramic-filled silicone elastomer typically supplied with a PET release liner on both sides. The product is intrinsically tacky and has excellent compression performance over a wide range of stack up tolerances with minimal force applied to components part. TC2006 can be supplied with a fabric or film on one side for additional support during handling and assembly.

Physical Properties

Property	Test Method	TC2006
Color	Visual	Light Purple
Thickness, nominal (in)	ASTM D374	0.020 - 0.250
Thermal conductivity (W/mK)	ASTM D5470	1.6
Thermal impedance (°C in ² /W)	ASTM D5470	See data below
Hardness (Shore 00)	ASTM D2240	35
Dielectric strength (volts/mil)	ASTM D149	> 250
Volume resistivity (ohm-cm)	ASTM D257	1.02 x 10 ¹¹
Operating temperature (°F)	-	-67 to 392
UL listing recognition	UL94	V-0

All properties are typical values and should not be used for writing specifications.

Data reflects non-supported option.

Compression-Deflection Data

	Percent	Deflection Force (psi)	Thermal Impedance (°C in. ² /W)
TC2006	10	1	2.21
0.1 in	30	11	1.72
	50	26	1.23

Recommended Uses

- Any gap filler application with large component height differences that are covered with a single pad.
- Typical used in memory cards, VGA modules and other multiple components assemblies.

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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Silicone Gap Filler Thermal Interface Materials

Features

- Soft and compliant gap filler
- Economical choice with excellent performance
- Integral support using fabric or PET film
- Fabric support provides good cut resistance for high abuse applications

Benefits

- Low pressure applied to assembled components
- Cost effective gap filler solution for many applications
- Improved die cutting and part stability while handling

Availability

- 24" x 24" sheets in thicknesses from 0.020" to 0.250"
- Available with fabric or film reinforcements
- Tacky surfaces are available on one or both sides

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