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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 component parts. TC2006 can be supplied with a fabric or film on one side for additional support during handling and assembly.

### 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

- Thickness : 0.5mm ~ 7.0mm
- Sheet size : 305mm x 305mm  
305mm x 610mm  
610mm x 610mm
- Special sheet size also available
- Available with fabric or film reinforcements
- Tacky surfaces are available on one or both sides

### 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.



## Physical Properties

Property	Test Method	TC2006
Color	Visual	Light Purple
Thickness, nominal (mm)	ASTM D374	0.5 ~ 7.0
Thermal conductivity (W/mK)	ASTM D5470	1.6
Thermal impedance ( $^{\circ}\text{C in}^2/\text{W}$ )	ASTM D5470	See data below
Hardness (Shore 00)	ASTM D2240	35
Dielectric strength (volts/mil)	ASTM D149	> 250
Volume resistivity (ohm-cm)	ASTM D257	$1.02 \times 10^{11}$
Operating temperature ( $^{\circ}\text{F}$ )	-	-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

	%	Deflection Force (kg/cm <sup>2</sup> )	Thermal Impedance ( $^{\circ}\text{C in}^2/\text{W}$ )
	10	0.007	2.21
TC2006	30	0.049	1.72
0.1 in	50	0.105	1.23

## Shelf Life

24 months after the date of manufacture when stored in original packaging at temperatures up to 25°C and 50% relative humidity.

ThermaCool® is a registered trademark of Saint-Gobain Performance Plastics Corporation.

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