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Saint-Gobain Performance Plastics ThermaCool® TC3008 is a high performance, 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. TC3008 can be supplied with a fabric or film on one side for additional support during handling and assembly.

### Features

- Soft and compliant gap filler with excellent thermal performance
- Thermal conductivity = 3.0 W/mK
- Integral support using fabric or PET film
- Fabric support provides good cut resistance for high abuse applications

### Benefits

- low pressure applied to assembled components
- Provides high range thermal conductivity
- Cost effective gap filler solution for many high performance 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	TC3008
Color	Visual	Light Blue
Thickness, nominal (mm)	ASTM D374	0.5~7.0
Thermal conductivity (W/mK)	ASTM D5470	3.0
Thermal impedance (°C in <sup>2</sup> /W)	ASTM D5470	See data below
Hardness (Shore 00)	ASTM D2240	50
Dielectric strength (volts/mil)	ASTM D149	> 250
Volume resistivity (ohm-cm)	ASTM D257	2.0 X 10 <sup>14</sup>
Operating temperature (°F)	-	-55 to 200
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 (°C in <sup>2</sup> /W)
TC3008	10	0.014	1.18
	30	0.063	1.05
	50	0.140	0.92

## 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.

### Seal & Design Able Division

5533 Steeles Avenue West Unit 11  
Toronto, Ontario M9L 1S7  
Ph: (416) 741-0750  
Gasket@AbleSealAndDesign.com

### Seal & Design Corporate Headquarters

4015 Casilio Parkway  
Clarence, NY 14031  
Ph: (716) 759-2222  
Info@SealAndDesign.com  
[www.SealAndDesign.com](http://www.SealAndDesign.com)

### Seal & Design Higbee Division

6741 Thompson Rd N  
Syracuse, NY 13221  
Ph: (315) 432-8021  
Sales@Higbee-Inc.com

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