



THERMACOOL® 

TC3006

Silicone Gap Filler



www.SealAndDesign.com

Saint-Gobain Performance Plastics ThermaCool® TC3006 is an extremely soft ceramic-filled silicone elastomer typically supplied with a PET release liner on both sides. The product is intrinsically tacky and can be compressed over a wide range of stack up tolerances with minimal force applied to component parts. TC3006 can be supplied with a fabric or film on one side for additional support during handling and assembly.

Features

- Extremely soft and compliant gap filler
- Integral support using fabric or PET film
- Fabric support provides good cut resistance for high abuse applications

Benefits

- Very low pressure applied to assembled components
- Useful for spanning multiple components with different height to minimize force on joints
- 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 Green
Thickness, nominal (mm)	ASTM D374	0.5 ~ 7.0
Thermal conductivity (W/mK)	ASTM D5470	1.1
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	2.03 X 10 ¹⁰
Operating temperature (°F)	-	-65 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 ²)	Thermal Impedance (°C in ² /W)
	10	0.007	3.22
TC3006	30	0.049	2.51
0.1 in	50	0.105	1.79

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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