

ThermaCool® TC3006

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.

Physical Properties

Property	Test Method	TC3006
Color	Visual	Light Green
Thickness, nominal (in)	ASTM D374	0.020 - 0.250
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 is recorded after a one minute dwell time at the compression setting.

	Percent	Deflection Force (psi)	Thermal Impedance (°C in. ² /W)
TC3006	10	1	3.22
0.1 in	30	7	2.51
	50	15	1.79

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.

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Silicone Gap Filler Thermal Interface Materials

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 heights to minimize force on joints
- Improve 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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SPES168-PDF-0412