

ThermaCool® TC3008

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.

Physical Properties

Property	Test Method	TC3008
Color	Visual	Light Blue
Thickness, nominal (mils)	ASTM D374	20-250
Thermal conductivity	ASTM D5470	3.0
Thermal impedance (°C in ² /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 ¹⁴
Operating temperature (°C)	-	-55 to 200
Flame rating	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)
TC3008	10	2	1.18
100 mil	20	9	1.05
	30	20	.92

Recommended Uses

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

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Silicone Gap Filler Thermal Interface Materials

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

- 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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