

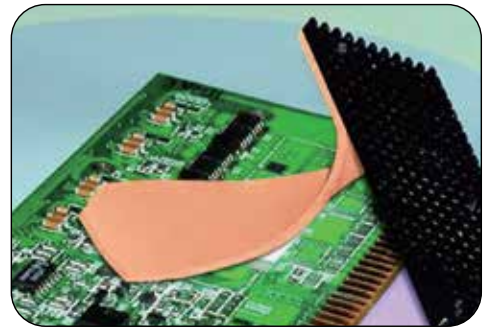
# ThermaCool<sup>®</sup> TC2007G

## Elastomeric Gap Filler

**Saint-Gobain<sup>®</sup> ThermaCool** TC2007G is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with 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. TC2007G can be supplied with a fabric or film on one side for additional support during handling and assembly.

## Features & Benefits

- Soft and compliant gap filler with excellent thermal performance
- Thermal conductivity = 1.6 W/m-K
- Integral support using fabric or PET film
- Fabric support provides good cut resistance for high abuse applications
- Low pressure applied to assembled components
- Provides high range thermal conductivity
- Cost effective gap filler solution for many high performance applications



## APPLICATIONS

- Power conversion equipment
- Telecommunications
- Consumer electronics
- Automotive electronics
- Thermal modules to heat sinks

## ThermaCool TC2007G Elastomeric Gap Filler — Properties

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

Property	TC2007G	Test Method
Color	Light Orange	Visual
Total thickness, nominal (mm) (1)	0.5-7.0	ASTM D374
Density (g/cc)	2.0	ASTM D792
Hardness (Shore 00)	50	ASTM D2240
Continuous Use Temp (°F) / (°C)	-65°F to 392°F / -54°C to 200°C	—
100 mil, 50% Deflection Force (psi)	67	—
<b>Electrical</b>		
Voltage Breakdown (VAC)	> 5000	ASTM D149
Volume resistivity (ohm-cm)	$1.02 \times 10^{10}$	ASTM D257
Flame Rating	V-0	UL94
<b>Thermal</b>		
Thermal Impedance (°C in <sup>2</sup> /W) 100 mil (2)	1.97	ASTM D5470
Thermal conductivity (W/m-K)	1.6	ASTM D5470

1) 0.5 mm increments. 2) Deflection 30% strain.

\*All properties are typical values and should not be used for writing specifications.

Data reflects non-supported option.

## Shelf Life

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

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