



TC3008

Silicone Gap Filler

Thermal Interface Materials

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 (W/mK)	ASTM E1530	3.0
Thermal Impedance (°C in. ² /W)	ASTM E1530	1.05 at 80 mils
Hardness (Shore 00)	ASTM D2240	50
Dielectric Strength (volts)	ASTM D149	>5,000
Operating Temperature (°C)	—	-54 to 200
Flame Rating	UL94	V-0

All properties are typical values and should not be used for writing specifications. Data above reflects non-supported option. Patent pending.

Compression-Deflection Data

Deflection force is recorded after a one minute dwell time at the compression setting.

	Percent	Force to Compress (psi)
TC3008 100 mil	10	2
	20	9
	30	20

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

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

NOTE: Saint-Gobain Performance Plastics Corporation does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s) or of any final product into which the product(s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform its own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.

Features

- Soft and compliant gap filler with excellent thermal performance
- Thermal conductivity = 3.0 W/m
- 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

ThermaCool® is a registered trademark
©2007 Saint-Gobain Performance Plastics Corporation
AFF-1588-PDF-1207-SGCS