

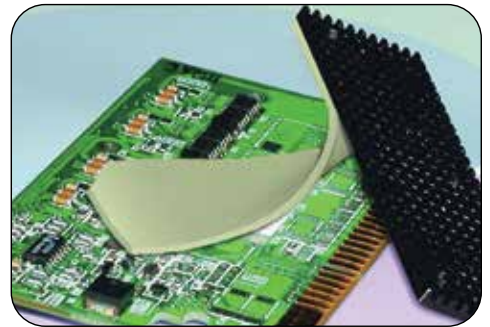
ThermaCool® TC3006S

Elastomeric Gap Filler

Saint-Gobain® ThermaCool TC3006S is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with 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. TC3006S can be supplied with a fabric or film on one side for additional support during handling and assembly.

Features & Benefits

- Extremely soft and compliant gap filler
- Integral support using fabric or PET film
- Fabric support provides good cut resistance for high abuse applications
- Very low pressure applied to assembled components
- Useful for spanning multiple components with different height to minimize force on joints



APPLICATIONS

- Telecommunications
- Notebook computers
- Consumer electronics
- EV battery

ThermaCool TC3006S 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	TC3006S	Test Method
Color	Light Green	Visual
Total thickness, nominal (mm) (1)	0.5-7.0	ASTM D374
Density (g/cc)	1.88	ASTM D792
Hardness (Shore 00)	30	ASTM D2240
Continuous Use Temp (°F) / (°C)	-65°F to 392°F / -54°C to 200°C	—
100 mil, 50% Deflection Force (psi)	15	—
Electrical		
Voltage Breakdown (VAC)	> 5000	ASTM D149
Volume resistivity (ohm-cm)	1.5×10^{10}	ASTM D257
Flame Rating	V-0	UL94
Thermal		
Thermal Impedance (°C in ² /W) 100 mil (2)	2.23	ASTM D5470
Thermal conductivity (W/m-K)	1.4	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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