

ThermaCool® TC2009

Elastomeric Gap Filler

Saint-Gobain® ThermaCool TC2009 is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with an economical, ultra 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. TC2009 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
- Economical choice with excellent performance for many applications
- Low pressure applied to assembled components
- IATF 16949 certificate plant
- Integral support using fabric, film or non-tacky for temporary bonding, clean release and ease of application



APPLICATIONS

- EV battery and powertrain systems
- Power conversion equipment
- Computer and peripherals
- Telecommunications
- Lighting and LED applications
- Automotive electronics

ThermaCool TC2009 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	TC2009	Test Method
Color	Dark Blue	Visual
Total thickness, nominal (mm) (1)	0.5-7.0	ASTM D374
Density (g/cc)	1.99	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)	18	—
Electrical		
Voltage Breakdown (VAC)	> 5000	ASTM D149
Volume resistivity (ohm-cm)	1.0×10^{10}	ASTM D257
Flame Rating	V-0	UL94
Thermal		
Thermal Impedance (°C in ² /W) 100 mil (2)	2.06	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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