

TC100

Gap Filler, Thermal Interface Materials

Saint-Gobain® ThermaCool® TC100 is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with an unsupported thermally conductive solid silicone rubber. This material offers thermal conductivity along with electrical isolation for heat transfer applications. TC100 can be used to fill air gaps between PC boards and heat sinks where a firm, robust material is needed.

ThermaCool TC100 viscoelastic core is specially intended to provide the following features:

- Filled silicone rubber material that does not require curing
- Formulated to provide clean release from most surfaces
- Material is rigid enough to be easily die cut
- Gap filler can be readily repositioned
- Ideal for applications where gaps are $>.020$ and can accommodate high pressure force of 100 psi
- Provides good vibration isolation of components that also require thermal transfer

Available Sizes

Standard thickness: .025, .031, .050 and .063 in.
(.64, .79, 1.27 and 1.6 mm)

Master roll size: 18 in. × continuous yard length

Master sheet size: 18 × 36 in. (457 × 914 mm)



APPLICATIONS

- Telecommunication
- Computers
- CD-ROM cooling
- Automotive electronics
- Electrical insulation
- Military
- Medical
- Heat pipe assemblies
- Electronic modules for power devices/supplies

ThermaCool TC100 — Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Property	Test Method	Value or Rating
Color	Visual	Light blue
Thickness, nominal: in.	ASTM D374	.025, .032, .062
Thermal Conductivity: W/mK	ASTM E1530	1.3
Thermal Impedance: °C in. ² /W (1/16")	ASTM E1530	1.25
Break Strength: psi	ASTM D412	250
Elongation: %	ASTM D412	200
Hardness: Shore A	ASTM D2240	65
Dielectric Strength: volts/mil	ASTM D149	> 250
Volume Resistivity: ohm-cm	ASTM D257	5x10 ¹⁵
Operating Temperature: °F	—	-80 to 400
UL Listing Recognition	UL94	HB

Important Instructions

Because **Saint-Gobain** cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.

Shelf Life

10 years from date of shipment when stored in original packaging at temperatures up to 70°F (21°C), < 50% relative humidity, and away from direct sources of heat and direct sunlight.



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