

Gap Filler Thermal Interface Materials

ThermaCool® TC100

Saint-Gobain Performance Plastics **ThermaCool® TC100** is an unsupported thermally conductive solid silicone rubber. This material offers thermal conductivity along with electrical isolation for heat transfer applications between PC Boards and Heat Sinks. TC100 can be used to fill air gaps between PC Boards and Heat Sinks.

Physical Properties

Property	Test Method	TC100
Colour	Visual	Light Blue
Thickness, nominal (mm)	ASTM D374	0.64, 0.80, 1.60
Thermal conductivity (W/mK)	ASTM E1530	1.3
Thermal impedance (°C in ² /W) (1.60mm)	ASTM E1530	1.25
Break strength (kPa)	ASTM D412	1723
Elongation (%)	ASTM D412	200
Hardness (Shore A)	ASTM D2240	65
Dielectric strength (volts/mm)	ASTM D149	> 9,800
Volume resistivity (ohm-cm)	ASTM D257	5 x 10 ¹⁵
Operating temperature (°F)	-	-60 to 205
UL listing recognition	UL94	HB

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

Recommended Uses

TC100 is offered to fill the needs of an unsupported thermal transfer material in applications requiring clean release, enhanced thermal performance by filling air gaps and electrical isolation.

Availability

TC100 is available in yard goods 18" wide. Standard thickness include .025, .032, .062. Other thicknesses can be manufactured with minimum requirements. Please contact customer support for special thickness requirements.

Features & Benefits

- Filled silicone rubber material which 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

Applications

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



Seal & Design Corporate Headquarters

4015 Casilio Parkway
Clarence, NY 14031
Ph: (716) 759-2222
Info@SealAndDesign.com
www.SealAndDesign.com



Seal & Design Higbee Division

6741 Thompson Rd N
Syracuse, NY 13221
Ph: (315) 432-8021
Sales@Higbee-Inc.com



Seal & Design Able Division

5533 Steeles Avenue West Unit 11
Toronto, Ontario M9L 1S7
Ph: (416) 741-0750
Gasket@AbleSealAndDesign.com

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