

TC100

Gap Filler

Thermal Interface Materials

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
Color	Visual	Light Blue
Thickness, nominal (inch)	ASTM D374	.025, .032, .062
Thermal Conductivity (W/mK)	ASTM E1530	1.3
Thermal Impedance ($^{\circ}\text{C in.}^2/\text{W}$) (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	5×10^{15}
Operating Temperature ($^{\circ}\text{F}$)	—	-80 to 400
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.

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.

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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

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