

# ThermaCool®

## Thermal Interface Materials

## ThermaCool® TC100 Gap Filler

ThermaCool® TC100 is an unsupported thermally conductive solid silicone rubber. This material offers thermal conductivity along with electrical isolation for heat transfer applications between PCBs and heat sinks. TC100 can be used to fill air gaps between PCBs and heat sinks.

### 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

### Typical Properties

Property	TC100	Test Method
Colour	Light Blue	Visual
Available Thicknesses mm (in.)	.064, .081, 1.58 (0.025, 0.032, 0.062)	ASTM D374
Thermal Conductivity W/m <sup>-1</sup> K <sup>-1</sup>	1.3	ASTM E1530
Thermal Impedance °C in. <sup>2</sup> /W	1.25	ASTM E1530
Break Strength MPa (psi)	1.72 (250)	ASTM D412
Elongation %	200	ASTM D412
Hardness Shore A	65	ASTM D2240
Dielectric Strength volts/mil	450	ASTM D149
Volume Resistivity ohm-cm	5 x 10 <sup>15</sup>	ASTM D257
Operating Temperature °C	-62 to +204	—
UL Listing Recognition	HB	UL94

**Applications**—TC100 is used as unsupported thermal transfer material in applications requiring clean release, enhanced thermal performance by filling air gaps and electrical isolation, for example:

- Electronic modules for power devices or power supplies
- Computers, telecommunications, automotive electronics
- Electrical insulation
- Heat pipe assemblies
- CD-ROM cooling

**Availability**—TC100 is available by the metre in rolls 457mm wide. Other thicknesses can be manufactured—please contact Saint-Gobain for minimum thickness requirements.

Saint-Gobain Performance Plastics sales, fabrication and distribution facilities are situated at the following locations:

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