

Saint-Gobain Performance Plastics **ThermaCool® TF1869** is a thermally conductive silicone coated fiberglass fabric that offers high temperature resistance and conformability as a low-cost heat sink gasket. The fiberglass fabric supports the silicone rubber and aids in dimensional stability and cut-through resistance.

Physical Properties

Property	Test Method	TF1869
Colour	Visual	Grey
Thickness (mm)	ASTM D374	0.23
Thermal conductivity (W/mK)	ASTM E1530	0.90
Thermal impedance (°C in ² /W)	ASTM E1530 @ 300psi	0.39
Break strength (kPa)	ASTM D412	620
Elongation (%)	ASTM D412	< 5
Dielectric strength (volts, total)	ASTM D149	3,000
Volume resistivity (ohm-cm)	ASTM D257	1 x 10 ¹⁴
Operating temperature (°C)	-	-60 to 205
UL listing recognition	UL94	94 VTM-1
Hardness (Shore A)	-	85

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

Availability

TF1869 is available in 914mm wide continuous yard goods. Die cut shapes can be purchased through approved local distributors/fabricators. Also available with a low tack acrylic pressure sensitive adhesive on one side.*

* Pressure sensitive adhesive increases thermal resistance by 0.05°C/W.

The data and details in this leaflet were correct and up-to-date at the time of printing and are intended to provide information on our products and their possible applications. It is the user's responsibility to make sure he is in possession of the latest version of the product data sheet. This leaflet is not a specification and does not assure specific product characteristics or make reference to the suitability of the products for a definite application. Because Saint-Gobain cannot anticipate or control every application, we strongly recommend testing of this product under individual application conditions. The application, the use and the conversion of this product are under the user's responsibility.

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Applications Advantages

- Clean, low-cost replacement for thermal grease.
- Material can be ordered with pressure sensitive adhesive on one side.



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