THERMACOOL®

TF1860 SERIES

Thermally Conductive Silicone-Coated Fabric

Saint-Gobain® **ThermaCool**® TF1860 Series are manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and come with thermally conductive silicone-coated fiberglass fabrics offering 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.

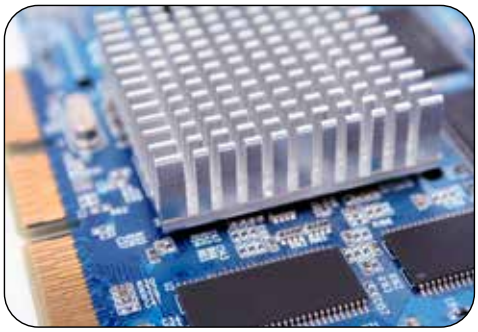
The **ThermaCool** TF1860 Series is specially intended to provide the following features:

- Thermal conductivity rating of .9 W/mK (low-cost fabric)
- Clean/low-cost replacement for thermal grease
- UL listing simplifies complete electronic system approval (94 V-O)
- Electrically isolates power source from heat sink device
- Material can be ordered with pressure-sensitive adhesive on one side for ease in placement

Available Sizes

Standard thickness: 0.0075 and .009 in. (.19 and .22 mm)

Master roll size: 36 in. × 36 yd. (914 mm × 33 meters)



APPLICATIONS

- Telecommunication
- Automotive electronics
- Electrical insulation
- Computers
- Power supplies
- Power devices
- Military
- Medical

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ThermaCool TF1860 Series — 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	TF1867	TF1869
Color	Visual	Gray	Gray
Thickness: in.	ASTM D374	0.0075	0.009
Thermal Conductivity: W/mK	ASTM E1530	0.90	0.90
Thermal Impedance: °C in^2/W	ASTM D1530 @ 300 psi	0.31	0.39
Break Strength: psi	ASTM D412	90	90
Elongation: %	ASTM D412	<5	<5
Dielectric Strength: volts, total	ASTM D149	2500	3000
Volume Resistivity: ohm-cm	ASTM D257	$1x10^{14}$	$1x10^{14}$
Operating Temperature: °F	—	-80 to 400	-80 to 400
UL Listing Recognition	UL94	94 VTM-0	94 VTM-1
Hardness: Shore A	—	85	85

Options (subject to minimum order requirements)

Adhesive base: Low tack silicone pressure-sensitive adhesive and solvent-resistant acrylic pressure-sensitive adhesive on one side. (PSA increases thermal resistance by 0.05 C/W.)

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.

For PSA options, surfaces must be clean and free of oil, grease, moisture, dust and dirt. Isopropyl alcohol is good for cleaning the surface.

Recommended service temperature of base fabric is -80°F to 400°F (-62°C to 204°C).

Shelf Life

120 months from date of shipment for base material 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. (See the applicable data sheets for pressure sensitive adhesive options).

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