C690 Series
Thermally Conductive Graphite Tape

Saint-Gobain Performance Plastics **ThermaCool™ C690 Series** are comprised of flexible graphite film coated on one side with 1 mil thickness of thermally conductive acrylic pressure-sensitive adhesive.

Physical Properties

Property	Test Method	C695	C6910
Color	Visual	Metallic Black	Metallic Black
Thickness (mils)	ASTM D1000	6.0	11.0
Thermal Conductivity (W/mK)	ASTM E1530 @ 100 psi/100°C	2.0	2.6
Thermal Impedance (°C in^2/W)	ASTM E1530 @ 100 psi/100°C	0.12	0.16
Tensile Strength (psi)	ASTM D1000	500	500
Dielectric Strength	ASTM D1000	N/A	N/A
Volume Resistivity	ASTM D257	N/A	N/A
Adhesion to Aluminum (oz./in.)	ASTM D1000	30	30
Adhesion to Liner (oz./in.)	ASTM D1000	8	8
Operating Temperature Range (°F)		-20 to 300	-20 to 300

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

Recommended Uses

One-sided adhesive allows for easy rework and upgrades. The heat spreading capabilities make it ideal for use with multiple components using one heat sink.

Availability

Available in slit-rolls up to 24".

Features/Benefits

- Graphite film spreads heat evenly to allow for maximum heat sink potential at low pressures
- Soft graphite material conforms readily to surface imperfections to improve thermal transfer
- One-sided adhesive construction allows for easy rework, replacement, or upgrade of components
- Pressure-sensitive adhesive tape can be pre-applied to a heat sink to minimize assembly costs

Applications

- Bonding components to heat sinks where electrical isolation is not a concern
- Creating electrically conductive surface on electrically isolating materials

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