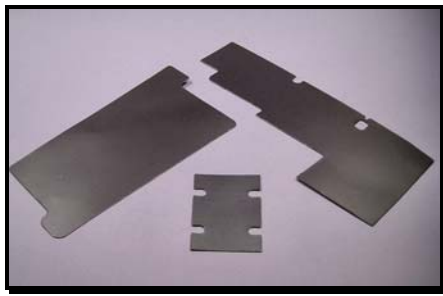


eGraf SpreaderShield Thermal Management Products are custom designed for use in applications requiring excellent two dimensional heat spreading and reduction in "hot spots" or touch temperature. The thermal properties and thickness are tailorable to specific applications. Typical applications are in flat panel displays, laptop computers, DVD cameras, cell-phones and PDA's. SpreaderShield materials are ideally suited where space for other cooling solutions is limited and lightweight is critical.



eGraf SpreaderShield components are composites of natural graphite and can be laminated with Mylar® or metal foils if desired. SpreaderShield materials are available with adhesive backing for easy peel and stick application.

SpreaderShield is covered by US Patent 6482520 and other patents pending.

**Typical Properties of eGraf SpreaderShield 60 Materials**

Property	eGraf SpreaderShield 60	Test Method
<i>Physical</i>		
Color	Dark Grey	ASTM F-152
Thickness	1.52 mm	
Tensile Strength	4700 kPa	
<i>Thermal</i>		
Operating Temperature	-40 to 400 °C	ASTM D 5470 Angstrom's Method
Thermal Conductivity		
Thru-thickness	6 W/m•K	
In-plane	240 W/m•K	
<i>Electrical - typical</i>		
Electrical Resistivity		ASTM C611
Thru-thickness	>100 μΩm	
In-plane	10 μΩm	ASTM C611
<i>Note: Properties are those of the base graphite</i>		

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