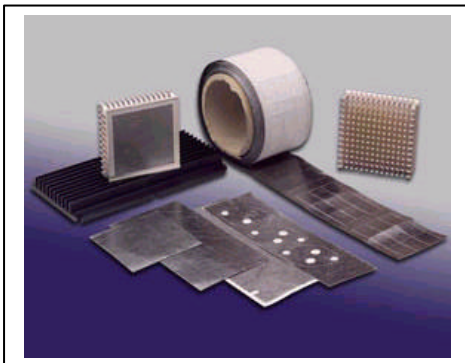


eGRAF™ 1200 Class Thermal Interface

The eGraf™ 1200 Class of thermally conductive interface materials is designed for use in applications requiring high thermal conductivity, low clamping loads and low contact resistance.



eGraf 1200 Class products are manufactured entirely from natural graphite with no fillers or binders. The conformable nature of eGraf 1200 Class products optimizes the thermal conductivity properties at low system loads.

eGraf 1200 thermal interface is an excellent replacement for thermal grease or phase change materials. *No release liner is required.* Typical applications include DC to DC converters, microprocessors, and hot and cold plates.

Technical Bulletin Number 233

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TYPICAL PROPERTIES OF eGraf 1200 Class Materials

Property	Typical Value	Test Method
<u>Physical</u>		
Color	Dark Grey	Visual
Thickness	0.005 in. to 0.060 in. (0.127 mm to 1.52 mm)	Calibrated Micrometer 0.005 in. increments 0.127 mm increments
Tensile Strength	500 psi (6.9 MPa)	ASTM F-152
<u>Thermal</u>		
Operating Temperature	-240 to 450 °C (-400 to 842 °F)	
Thermal Impedance (0.005 in. product)	0.03 °C?in ² /W (@50 psi or 345 kPa)	Modified ASTM D 5470
Thermal Conductivity z direction	12 W/m ² K	Modified
x-y direction	200 W/m ² K	ASTM D 5470
<u>Electrical</u> - typical values		
Resistivity (x-y direction)	10 µhm•m	ASTM C611
Resistivity (z direction)	100 µhm•m	ASTM C611

Options

All eGraf 1200 class products are available with or without a pressure sensitive adhesive (PSA), in sheet, roll or die cut form.

eGraf Thermal Interface Ordering Information

12WW - X

1st digit = typical thermal conductivity in W/m²K
2nd & 3rd digits = thickness in 0.001 in.
Example:
Grade 1200 has a thermal conductivity of 12 W/m²K and a thickness of 0.005 in.

Available with or without PSA.
A = with PSA
Blank = without PSA
ex: 1200A is 0.005 in. thick, with PSA on one side

