

GrafTech eGRAF[®] SPREADERSHIELD[™],ç SS500 Graphite

Category : Carbon , Graphite

Material Notes:

Made from flexible graphite, eGRAF[®] SPREADERSHIELD[™],ç products function as both a passive heat spreader and heat shield. SPREADERSHIELD[™],ç material can be die-cut, press-formed, or laminated with plastics, metals, adhesives, and other materials. Every SPREADERSHIELD[™],ç part is customized to meet specific application needs and improve thermal performance within a limited space and weight. SPREADERSHIELD[™],ç products have provided thermal solutions in a variety of industries and applications, including displays (PDP, LCD CCFL, LED BLU, OLED), cell phones, laptop and ruggedized computers, handheld gaming devices, batteries, projectors, set-top boxes, and automotive electronics. Each application is specialized to require different characteristics of SPREADERSHIELD[™],ç products. Grade SS500 is designed specifically for notebook PCs, handsets, and cameras.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-eGRAF-SPREADERSHIELD-SS500-Graphite.php

Physical Properties	Metric	English	Comments
Thickness	127 microns	5.00 mil	Standard
	760 microns	29.9 mil	Standard

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	7.70 MPa	1120 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	-0.400 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	-0.222 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	In-Plane
	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Through-Plane
Specific Heat Capacity	0.700 J/g- $\text{Å}^\circ\text{C}$	0.167 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	2.80 W/m-K	19.4 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	Nominal, Through-Plane; ASTM-D5470 Modified Method
	500 W/m-K	3470 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	Nominal, In-Plane; Angstrom's Method
Maximum Service Temperature, Air	400 $\text{Å}^\circ\text{C}$	752 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-40.0 $\text{Å}^\circ\text{C}$	-40.0 $\text{Å}^\circ\text{F}$	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000420 ohm-cm	0.000420 ohm-cm	In-Plane
			Through-Plane

Electrical Properties	0.0667 ohm-cm Metric	0.0667 ohm-cm English	Comments
Descriptive Properties			
Thermal Contact Impedance - Per Side ($\text{Å}^\circ\text{C}\text{Å}\cdot\text{cm}\text{Å}^2/\text{W}$)		0.9	at 0.10 mm spreader thickness

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