

GrafTech eGRAF® SPREADERSHIELD™ SS400 Graphite

Category : Carbon , Graphite

Material Notes:

Made from flexible graphite, eGRAF® SPREADERSHIELD™ products function as both a passive heat spreader and heat shield.

SPREADERSHIELD™ material can be die-cut, press-formed, or laminated with plastics, metals, adhesives, and other materials. Every SPREADERSHIELD™ part is customized to meet specific application needs and improve thermal performance within a limited space and weight. SPREADERSHIELD™ 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™ products.

Grade SS400 is designed specifically for large displays, notebook PCs, and handsets.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-eGRAF-SPREADERSHIELD-SS400-Graphite.php

Physical Properties	Metric	English	Comments
Thickness	51.0 microns	2.01 mil	Standard
	76.0 microns	2.99 mil	Standard
	127 microns	5.00 mil	Standard
	250 microns	9.84 mil	Standard
	380 microns	15.0 mil	Standard
	430 microns	16.9 mil	Standard
	510 microns	20.1 mil	Standard
	50.0 - 1000 microns	1.97 - 39.4 mil	Available Range
	940 microns	37.0 mil	Standard

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	9.70 MPa	1410 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	-0.400 $\mu\text{m/m-}^\circ\text{C}$	-0.222 $\mu\text{in/in-}^\circ\text{F}$	In-Plane
	27.0 $\mu\text{m/m-}^\circ\text{C}$	15.0 $\mu\text{in/in-}^\circ\text{F}$	Through-Plane
Specific Heat Capacity	0.700 J/g- $^\circ\text{C}$	0.167 BTU/lb- $^\circ\text{F}$	
Thermal Conductivity	3.70 W/m-K	25.7 BTU-in/hr-ft 2 - $^\circ\text{F}$	Nominal, Through-Plane; ASTM-D5470 Modified Method

Thermal Properties	Metric 100 W/m-K	English 2780 BTU-in/hr-ftÂ°- F-in	Nominal In-Plane; Angstrom's Method
Maximum Service Temperature, Air	400 Â°C	752 Â°F	
Minimum Service Temperature, Air	-40.0 Â°C	-40.0 Â°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000520 ohm-cm	0.000520 ohm-cm	In-Plane
	0.0556 ohm-cm	0.0556 ohm-cm	Through-Plane

Descriptive Properties	Value	Comments
Thermal Contact Impedance - Per Side (Â°CÂ-cmÂ²/W)	0.38	at 0.50 mm spreader thickness

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