

GrafTech eGRAF[®] SPREADERSHIELD[™],ç SS1500 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 SS1500 is designed specifically for handsets, Pico-projectors, and cameras.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-eGRAF-SPREADERSHIELD-SS1500-Graphite.php

Physical Properties	Metric	English	Comments
Thickness	20.0 microns	0.787 mil	Standard

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 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 $\cdot\text{Å}^\circ\text{C}$	0.167 BTU/lb $\cdot\text{Å}^\circ\text{F}$	
Thermal Conductivity	3.40 W/m-K	23.6 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	Nominal, Through-Plane; ASTM-D5470 Modified Method
	1500 W/m-K	10400 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	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	0.0000500 ohm-cm	0.0000500 ohm-cm	In-Plane
	0.200 ohm-cm	0.200 ohm-cm	Through-Plane

Descriptive Properties	Value	Comments
Thermal Contact Impedance - Per Side ($\text{Å}^\circ\text{C}\cdot\text{cm}^2/\text{W}$)	0.15	at 0.02 mm spreader thickness

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China