

GrafTech eGRAF® SPREADERSHIELD,ç SS300 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 SS300 is designed specifically for use in large displays.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-eGRAF-SPREADERSHIELD-SS300-Graphite.php

Physical Properties	Metric	English	Comments
Thickness	510 microns	20.1 mil	Standard
	250 - 1000 microns	9.84 - 39.4 mil	Available Range
	940 microns	37.0 mil	Standard

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	4.50 W/m-K	31.2 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	Nominal, Through-Plane; ASTM-D5470 Modified Method
	300 W/m-K	2080 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	0.000650 ohm-cm	0.000650 ohm-cm	In-Plane
	0.0350 ohm-cm	0.0350 ohm-cm	Through-Plane

Descriptive Properties	Value	Comments
Thermal Contact Impedance - Per Side ($\hat{A}^{\circ}C\hat{A}\cdot cm\hat{A}^2/W$)	0.3	at 0.50 mm spreader thickness

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