# GrafTech eGRAFÂ® SPREADERSHIELDâ„¢ SS600 Graphite

**Category :** Carbon , Graphite

**Material Notes:**

Made from flexible graphite, eGRAFÂ® SPREADERSHIELDâ„¢ products function as both a passive heat spreader and heat shield. SPREADERSHIELDâ„¢ material can be die-cut, press-formed, or laminated with plastics, metals, adhesives, and other materials. Every SPREADERSHIELDâ„¢ part is customized to meet specific application needs and improve thermal performance within a limited space and weight. SPREADERSHIELDâ„¢ 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 SPREADERSHIELDâ„¢ products. Grade SS600 is designed specifically for handsets, Pico-projectors, and cameras.

Order this product through the following link:
http://www.lookpolymers.com/polymer_GrafTech-eGRAF-SPREADERSHIELD-SS600-Graphite.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Thickness | 100 microns | 3.94 mil | Standard |
| | 100 - 127 microns | 3.94 - 5.00 mil | Available Range |
| | 127 microns | 5.00 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 Âµm/m-Â°C | -0.222 Âµin/in-Â°F | In-Plane |
| | 27.0 Âµm/m-Â°C | 15.0 Âµin/in-Â°F | Through-Plane |
| Specific Heat Capacity | 0.700 J/g-Â°C | 0.167 BTU/lb-Â°F | |
| Thermal Conductivity | 3.50 W/m-K | 24.3 BTU-in/hr-ftÂ²-Â°F | Nominal, Through-Plane; ASTM-D5470 Modified Method |
| | 600 W/m-K | 4160 BTU-in/hr-ftÂ²-Â°F | 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 | | | In-Plane |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| | 0.000340 ohm-cm | 0.000340 ohm-cm | |
| | 0.100 ohm-cm | 0.100 ohm-cm | Through-Plane |

| Descriptive Properties | Value | Comments |
|---|---|---|
| Thermal Contact Impedance - Per Side (Â°CÂ·cmÂ²/W) | 0.44 | at 0.10 mm spreader thickness |

## Contact Songhan Plastic Technology Co.,Ltd.

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