

FlexGRAF® FG500

Thermal Interface Graphite Sheet



Description

FlexGRAF® FG500 is a thermal interface material with superior thermal conductivity, both in and trough-plane, which enables a homogenous thermal distribution inhibiting the formation of hot-spots. It's flexible nature allows it to be cut into diverse geometries and it's good compressibility reduces thermal contact resistance, making it a good choice for applications that require long-term performance.

Features

- High Operating Temperature Resistance: up to 750°F
- Flammability class UL 94 V0
- Very high heat dissipation
- Might be laminated with a electrical insulation foil to offer dielectric resistance

Delivery Format

- Rolls from 0.2" to 39.37" width and 328 ft long
- Without adhesive, or with adhesive on single or both sides
- Die-cut pieces

Typical Properties

Characteristics	Standard	Unit	Value
Color	-	-	Dark Grey
Specific Gravity	ASTM D792	g/cm ³	1.5 to 1.6
Carbon Content	-	%	99,8
Thickness	ASTM D374	mm	0,13mm (0.005")
Hardness	ASTM D2240	Shore A	80
Tear Strength	-	psi	650
Flammability Class	-	UL 94	V0
Dielectric Resistance	-	Kv	0
Operating Temperature	-	°C	-40 to 400
Thermal Conductivity @ 700kPa Vertical Direction (Trough-Plane)	ASTM D5470	W/m.k	10
Horizontal Direction (In-Plane)			380
Thermal Impedance @ 700 kPa	-	K-cm ² /W	0,42
Volumetric Resistance	-	ohms-cm	11*10 ⁻⁴
Outgassing TML	-	%	0,15
Outgassing CVCM	-	%	0,09