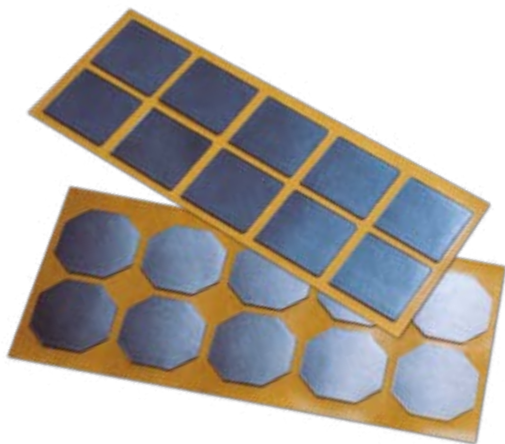





FlexGRAF® FG1000

Thermal Interface
Graphite Sheet



Thickness

		
0,13mm [0.005"]	0,25mm [0.01"]	0.50mm [0.020"]
FG500	FG700	FG1000



Description

FlexGRAF® FG1000 is a thermal interface material with superior thermal conductivity, both in and through-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. FlexGRAF® FG1000 is RoHS and Reach Compliant.



Features

- High Operating Temperature Resistance: up to 750°F
- 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	-	%	98,0
Thickness	ASTM D374	mm	0.50mm (0.020")
Hardness	ASTM D2240	Shore A	85
Tear Strength	-	psi	650
Dielectric Resistance	-	Kv	0
Operating Temperature	-	°C	-40 to 400
Thermal Conductivity @ 700kPa Vertical Direction (Through-Plane) Horizontal Direction (In-Plane)	ASTM D5470	W/m.k	15 350
Thermal Impedance @ 700 kPa	-	K-cm ² /W	0,55
Electrical Resistivity (Through Plane)	-	$\mu\Omega$ m (Direction x-y) $\mu\Omega$ m (Direction z)	65 1250
Outgassing TML	-	%	0,15
Outgassing CVCM	-	%	0,09