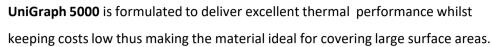
UniGraph 5000

Graphite Thermal Interface Material





UniGraph 5000 is graphite based and designed to thermally connect metal to metal surfaces that require no electrical isolation. **UniGraph 5000** is easy to handle and will deliver consistent and repeatable thermal performance. This provides a known and repeatable level of thermal conductivity which the application of grease is difficult to replicate.

Features

- Non-electrically isolating graphite thermal interface material
- Soft surfaces on both sides of the material work to reduce interfacial thermal resistance
- · Excellent, no mess, alternative to thermal grease

Availability

- Standard thicknesses of 0.125mm, 0.25mm and 0.5mm
- Available as custom die-cut shapes and standard sheet sizes of 610mm x 457mm
- Can be supplied with an additional adhesive coating applied on one side

Typical Physical Properties

Property (unit)	Test Method	UniGraph 5000 (0.125mm)
Colour	Visual	Black
Thermal Conductivity – Along Material (W/mK)	ASTM D5470	240
Thermal Conductivity – Through Material (W/mK)	ASTM D5470	5
Thermal Resistance (°C-cm²/W @ 681KPa)	ASTM D5470	0.40
Operating Temp. (°C)	-	-220 to +300
Flame Rating	UL94	V-0

Benefits

- Consistent and repeatable thermal performance
- Cost effective thermal solution for a wide variety of applications that require no electrical isolation
- Easy to handle and apply
- Replaces messy to apply grease with no pump out or risk of drying out

Recommended Uses

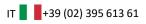
- Thermally coupling metal backed PCBs to heatsinks. cold walls or nearby metal work
- Mounting an LED lighting module to a heatsink
- Automotive, power supply, motor drive and in applications where costs need to be kept to a minimum

Mechanical Information

Property (unit)	Test Method	UniGraph 5000 (0.125mm)
Tensile Strength (PSI)	ASTM D412	650
Hardness (Shore A)	ASTM D2240	85
Outgassing CVCM (%)	ASTM E595	0.10
Density (g/cc)	-	2.20
Volume Resistivity (Ω-cm)	ASTM D257	11 x 10 ⁻⁵



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