



Thermally Conductive Graphite

Graphite thermal gaskets are also known as graphite heat sinks and are used to increase life of electronic products by assisting in the reduction of damaging heat on components. Graphite thermal gaskets are highly thermally conductive and are easily die-cut into custom shapes or sizes. They come in very thin layers and can be repeatedly bent or formed to ensure excellent alignment over a long period of use.

Thermal Properties		
	TGR10	Test Method
Thermal Conductivity (vertical), W/m-K	5.0 ± 0.5	ASTM D5470
Thermal Conductivity (horizontal), W/m-K	400 ± 0.5	
Physical Properties		
Material	Graphite	-
Color	Black	Visual
Thickness, in (mm)	0.004, 0.012, 0.020, 0.040 (0.1, 0.3, 0.5, 1.0)	ASTM 2240
Density, lb/in ³ (g/cm ³)	.072 ± 0.007 (2.0 ± 0.2)	ASTM D792
Hardness, Shore C	50 min	ASTM D2240
Operating temperature, °F (°C)	-40 - 752 (-40 - 400)	-
Regulatory		
Shelf Life, months	12	-

Applications

- Mobile Electronics
- Computers
- High Power LEDs

Benefits

- High Thermal Conductivity (horiz.)
- Three dimensional heat conduction
- Short lead time
- Low Cost
- Light Weight
- Custom shapes and sizes
- Flexible



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