EC360GRAPHITE

Thermal Pad Series

EC360® GRAPHITE introduces highly conductive thermal pads made from artificial graphite, the ideal alternative to high-end thermal pastes. The graphite layer is ultra thin with a thickness of just 0.017mm, the thinnest on the market. Paired with an unmatched thermal conductivity of 1500 W/mK on the X-Y axis and 25 W/mK on the Z axis, it makes it the perfect thermal interface material. While thermal paste requires a lot of practice for applying the correct amount and spreading it evenly, installing a graphite sheet is easy. It comes thinner than any thermal paste can be spread and at the same time is more conductive, just place it and install the heatsink. Furthermore, it is highly durable, as it does not contain any liquids it virtually lasts forever. It can not dry out, does not need to be reapplied and will not degrade over time. Additionally it does not leave a messy surface, is easy to remove and can even be reused. Please note, while it is safe to apply, it must be handled with caution. As graphite is electrically conductive, take special care that it does not get in contact with electric components and avoid short-circuits. The graphite sheet can be conveniently cut using a scissor, which allows trimming to the perfect size for any surface.

Types and Configurations

Thickness*	Available sizes*
0.017 mm / 0.0006 “	30x30 mm, 40x40 mm, 100x100 mm, 200x200 mm

* Custom configurations are available upon request, for worldwide industrial inquiries please contact us at: sales@extremecool360.com

Technical Properties

Properties	Unit	Value	Test method
Color	-	black	Visual
Thermal Conductivity (X-Y)	W/mK	1500.0	ASTM D5470
Thermal Conductivity (Z)	W/mK	25.0	ASTM D5470
Thermal Resistance	°C-in2/W	0.45	ASTM D5470
Specific Gravity	g / cm³	2.1	ASTM D 792
Hardness	Shore A	85	ASTM D 2240
Tensile Strength	psi	650	ASTM D 412
Conductivity (Electrolytic)	s/cm	19000	ASTM D 257
Usable Temperatures	°C	-40 - 140	EN 344
Flame Rating	-	VO	UL 94

Installation Recommendation

- Clean surfaces from dirt and other possible residue. If applicable, isopropyl 90% alcohol is recommended to ensure a clean surface.
- Remove one of the protective layers and place the exposed side of the thermal pad facing the surface of the chip. Once positioned gently press on it to make it stick.
- Remove the second protective layer and install the heatsink.

EC360 Extreme Cool Thermal Compounds