

Data sheet

revised on 24.05.2022

innovatek Graphite foil, 457 x 609 x 0.13 mm

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Properties and technical information

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Physical properties

The innovatek graphite foil is an electrically as well as thermally conductive foil made of 98 % graphite. The film is silicone-free and has a high flexibility, which allows it to adapt very well to the contact surfaces and minimizes thermal resistance. The film is adhesive on one side and therefore extremely easy to use.

The graphite film has a low density and extremely high temperature resistance (up to 350 °C), enabling a wide range of applications.

Shape	solid
Color	gray
Material	98 % graphite
Dimensions	457 x 609 x 0,13 mm (WxLxH, +/- 10 %)
Hardness	85 (Shore A)
Density	approx. 1.35 g/cm ³
Temperature range	-240 °C to 350 °C
Volume resistivity	11 x 10 ⁻⁴ Ohm - cm
Dielectric constant	< 0.001 @ 1 MHz
Flammability	V0 (UL 94 compliant)
Thermal conductivity	approx. 8 W/K*m (Z direction) approx. 140 W/K*m (X-Y direction)
Thermal resistance	0.06 °C-inch ² /W @ 1 MPa 0.09 °C-inch ² /W @ 200 kPa 0.12 °C-inch ² /W @ 70 kPa

Use, field of application

We recommend the use of our graphite foil for the following applications:

- Aerospace applications
- Processors and power modules
- Electronic components in inverters
- Silicone-free material requirements

Storage

No special specifications available, insofar as within the specified temperature range.

Manufacturer / Supplier

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