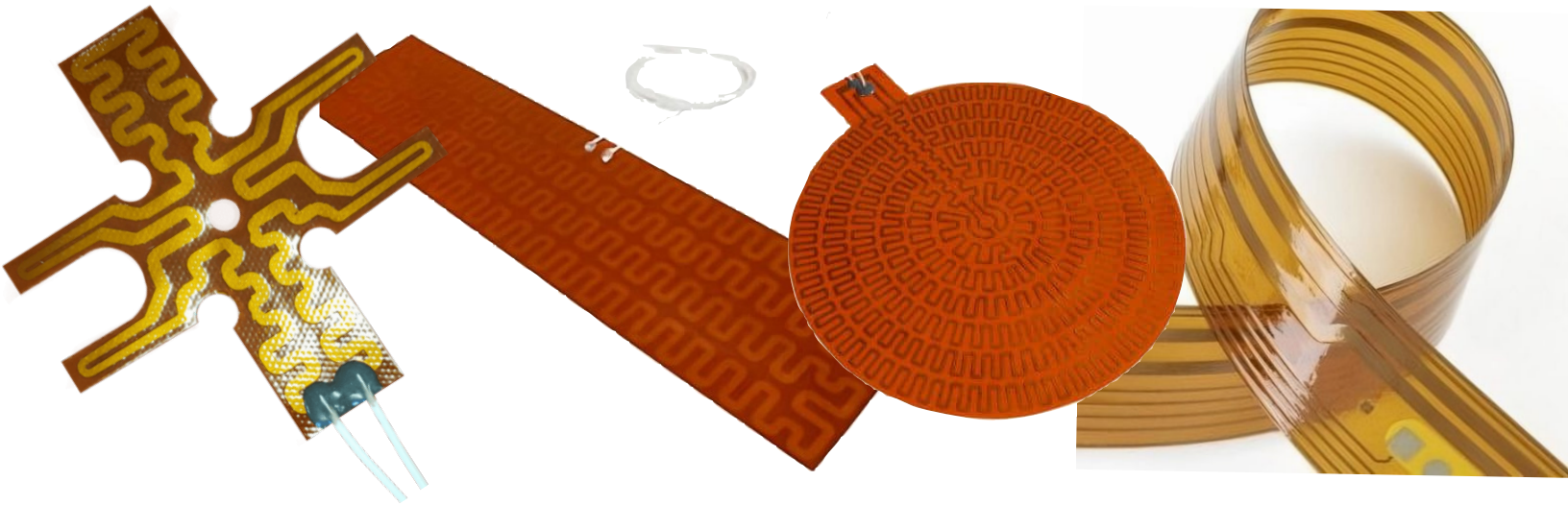
KAPTON HEATERS



GENERAL INFORMATION

Kapton heaters are a thin-film, high-performance polyimide heater made from Kapton, a registered trademark of DuPont™, designed to be used in applications where flexibility, high-temperature resistance, and uniform heating are essential.

Wide Temperature Range: Kapton heaters can operate effectively across a broad temperature range, typically from -195°C to 200°C (-319°F to 392°F). This makes them suitable for both low and high-temperature applications.

Flexibility: The thin and flexible nature of Kapton film allows these heaters to conform to irregular shapes and surfaces. This flexibility is ideal for applications where traditional rigid heaters would be impractical.

High Thermal Efficiency: Kapton heaters provide efficient and uniform heating. The thin film design ensures that heat is distributed evenly across the surface, reducing hot spots and improving overall performance.

Chemical and Moisture Resistance: Kapton is resistant to chemicals, moisture, and solvents, which makes Kapton heaters suitable for use in harsh or corrosive environments where other materials might degrade.

Electrical Insulation: The Kapton film provides excellent electrical insulation, which enhances safety and allows for the heater to be used in environments

Thin Profile: The low-profile design of Kapton heaters means they can be integrated into tight spaces where bulkier heaters would not fit. This is particularly beneficial in applications requiring compact and lightweight heating solutions.

Fast Heating: Kapton heaters can reach their operating temperature quickly due to their efficient heat transfer properties. This rapid heating capability is useful in applications where time-sensitive temperature control is required.

Durability: Kapton film is known for its durability and resistance to physical wear and tear. This contributes to the long lifespan of the heaters, reducing the need for frequent replacements.

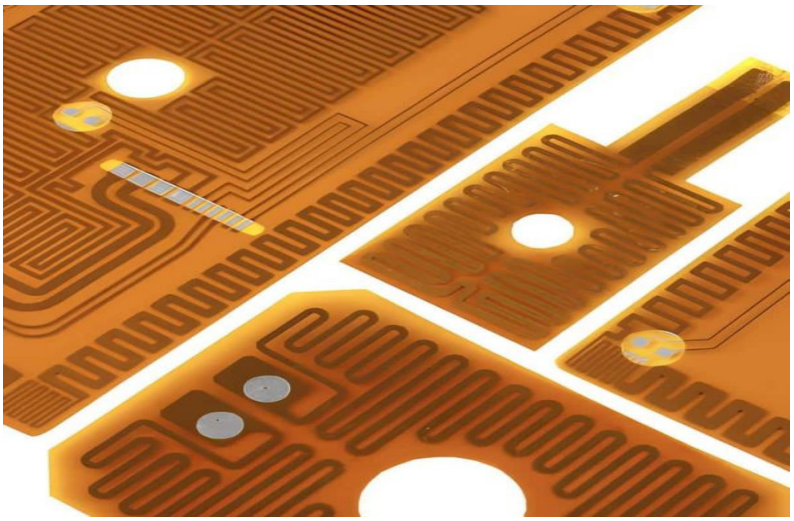
Customizability: Kapton heaters can be manufactured in various shapes, sizes, and configurations to meet specific application requirements. This customizability allows for tailored solutions in a wide range of industries.

Lightweight: The light weight of Kapton heaters makes them easy to handle and install, and it minimizes the impact on the overall weight of the system or device in which they arsed.

APPLICATIONS

Industrial Silicone Rubber Heaters are used in many applications, including:

Aerospace
Electronics
Medical Devices
Automotive
Industrial
Consumer Goods
Laboratory Equipment
Photovoltaic Systems
3D Printing



SPECIFICATIONS

Voltage:	12V to 480V (AC/DC)
Resistance Tolerance:	±10%
Max Resistance Density:	125 Ω/in^2
Max Length:	22″ (55.9 cm)
Max Width:	10″ (25.4 cm)
Nominal Thickness:	0.2 mm (.008″)
Lead Wires:	10″ 22awg Teflon (standard)
Oper. Temp.:	-195°C – 200°C (-319°F – 392°F)
Resistance to:	Moisture
	Ozone
	Fungus