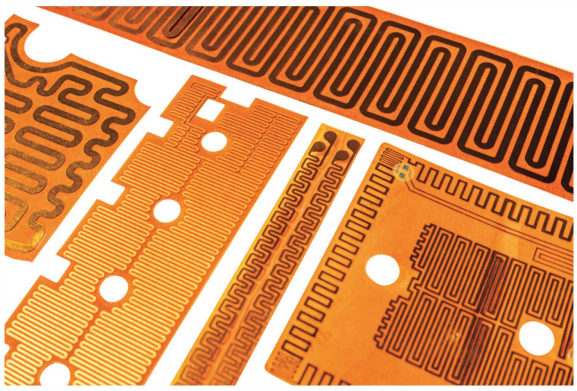
Kapton Technical Data Sheet

CHR CUSTOM HEATERS & RESEARCH

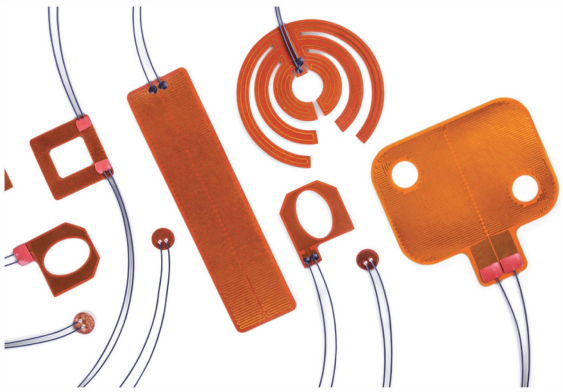
APPLICATIONS:

CHR, Inc. supplies Kapton (Polyimide) heaters for many different applications such as; process control, battery warming, telecommunications, laboratory equipment and anti-condensation. The uses for polyimide heaters are extensive as they are our only heater than can suit any application requiring surface heating from -269°C to 200°C (-452F - 392F). Their suitability for arduous conditions has been proven in applications from polar expeditions to space exploration. Using expertly and individually designed etched foil tracks, our Kapton heaters can be manufactured to a range of specifications, shapes and sizes to suit the customers' requirements.



MAIN POINTS:

- Minimal Thermal Mass
- High Power Densities
- Fast and Efficient Thermal Transfer
- Low Outgassing
- Precise Even Heating
- Low Profile
- IP64 Protection
- Wide Temperature Range -269°C to 200°C (-452F to 392F)
- Superb Electrical Insulating Properties
- Extremely Flexible



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Technical Data

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CONSTRUCTION:

Kapton (Polyimide) is a semi-transparent, organic polymer film, ideally suited for the manufacture of etch foil heater mats. With its low thermal mass, superb electrical insulating properties and excellent resistance to most chemicals, it allows high power densities with fast and efficient thermal transfer. Being thin and lightweight with a wide temperature range polyimide heaters have a distinct advantage over other forms of heating elements.

CHARACTERISTICS:

CHR, Inc. low profile Kapton heaters are renowned for their very good resistance to weather & aging, fungus & bacteria and ozone. In addition to this, they also have an adequate resistance to radiation, and most chemicals, acids and solvents, making them an ideal solution to a wide variety of applications.

HEALTH & SAFETY:

Kapton heaters are intended for use in industrial electric heating apparatus. The heater has to be operated in accordance with local standards and regulations and should be installed on an electrical system protected by a residual current circuit breaker.

TECHNICAL DATA	
MAXIMUM DIMENSIONS	Width - 550mm/21.65" Length - 285mm/11.22"
THICKNESSES	0.2mm
TEMPERATURE RANGES	-269°C - 200°C (Non Adhesive) -30°C - 180°C (Self Adhesive)
POWER RATING	Variable (Dependant on application)
THERMAL CONDUCTIVITY	0.12 (Watt/Meter/K)

	KAPTON	SILICONE WIRE WOUND	SILICONE ETCHED FOIL
TEMPERATURE RANGE	-269°C to 200°C **-452F to 392F**	-60°C to 250°C **-76F to 482F**	-60°C to 200°C **-76F to 392F**
THICKNESS RANGE	0.2mm to 0.3mm	1.1mm to 3mm	0.8mm to 1.5mm
MAXIMUM POSSIBLE SIZE	285mm x 550mm **11.22" x 24.65"**	940mm x 3000mm **37" x 118.11"**	595mm x 2500mm **23.43" x 98.43"**
UL & VDE APPROVAL AVAILABLE		✓	✓
SUITABLE FOR HIGH QUANTITY	✓		✓
LOW SMOKE LOW TOXICITY AVAILABLE		✓	✓