



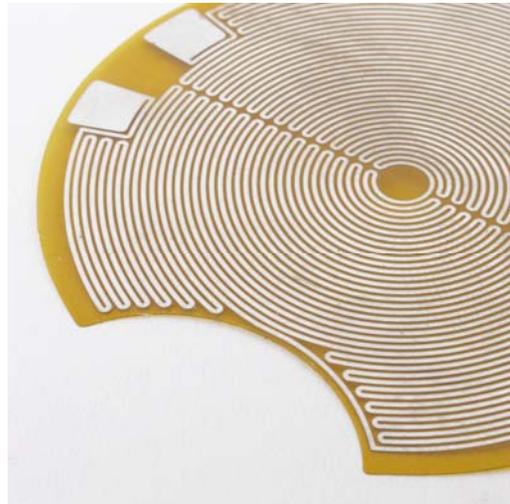
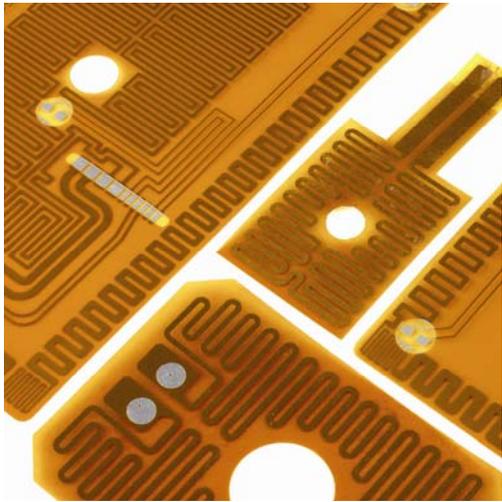
## ***Kapton (Polyimide) Flexible Heaters***

Heating of Electronic Components- ATM's and Photocopiers, Medical Imaging,  
Medical Diagnostic Instruments, Analyzers plus many more applications

**Inquiries & Technical Support 1-877-674-9744**



[sales@nphheaters.com](mailto:sales@nphheaters.com)



### ***Kapton (Polyimide) Flexible Heaters-Description***

**Advantages:** Polyimide (Kapton™) is a semitransparent, flexible, thin material, 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. Where fast response, chemical resistance and a low profile is required polyimide heaters offer the ideal solution.

**Applications: Kapton (Polyimide) Heaters-** NPH supplies polyimide heaters for many different applications such as heating of electronic components- ATM's and photocopiers, heating of aerospace instrumentation-satellites and spacecraft, semiconductor wafer processing, autoclaves, incubators and sterilizers, vacuum chambers, medical imaging, medical diagnostic instruments and analyzers. In addition these other applications are also covered: industrial catering, battery warming, environmental control or electronics particularly telecommunications, laboratory equipment and anti-condensation

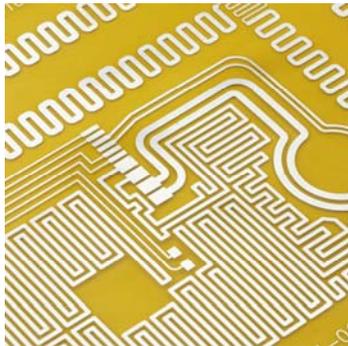
The uses for polyimide heaters are infinite as they can suit any application requiring surface heating up to 200°C. Their suitability for arduous conditions has been proven in applications from polar expedition to space exploration. We are the final frontier in polyimide heaters!

**Installation and Fixing/Attachment :** Our self adhesive option is a quick and simple fixing method which provides superb bonding results to many surfaces including low energy materials.

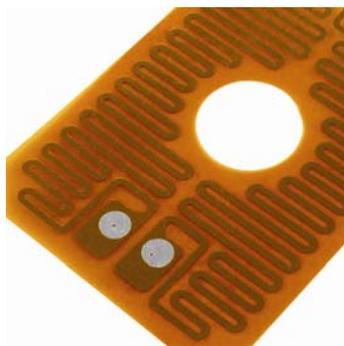
**Thermal Control:** An extensive range of thermal control devices can be incorporated onto the heaters, these include thermocouples, platinum sensors and limit switches. Pockets and housings can also be applied enabling the client to install their own control devices such as PT100's and capillary thermostats.

**Service and Design:** Providing the full design service NPH can manufacture virtually any shape and size heater coupled with short delivery times of 3-5 days in most cases. From prototype to production, spares and problem solving, NPH covers the full spectrum.

**Customer Support:** Established in 1972 NPH's manufacturing partner has been providing surface heating solutions for customer requirements throughout the world. As Europe's largest specialized silicone rubber heater manufacturer our experience and product range is vast.



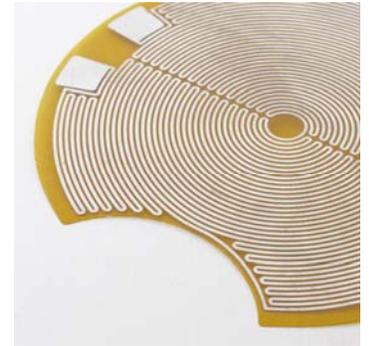
Kapton Flexible Circuits



Kapton Heaters



Kapton( Polyimide) Tapes



Kapton (Polyimide) Heaters

### **Kapton™ (polyimide) Insulated Heaters Features and Benefits:**

- **Thin and Lightweight**
- **Minimal Thermal Mass**
- **Superb Electrical Insulating Properties**
- **Excellent Chemical Resistance**
- **High Power Densities**
- **Fast Efficient Thermal Transfer**

- Weather resistant
- Ozone Resistant
- Fungus and Bacteria Resistant
- Good Resistance to Radiation
- 3-5 Day Delivery
- UL and VDE approved manufacturing facilities



## **National Plastic Heater, Sensor and Control Inc.**

[sales@nphheaters.com](mailto:sales@nphheaters.com)

**Toll Free: 1-877-674-9744 (Canada and USA)**

[www.kapton-silicone-flexible-heaters.com](http://www.kapton-silicone-flexible-heaters.com)

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[www.nphheaters.com](http://www.nphheaters.com)

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