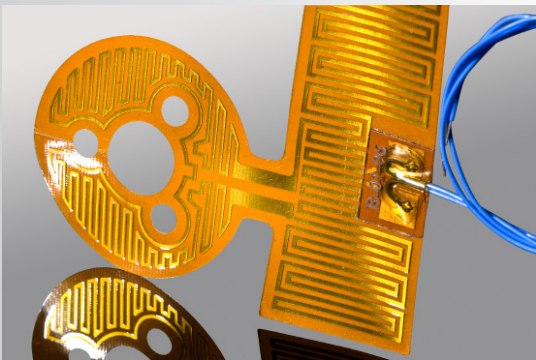
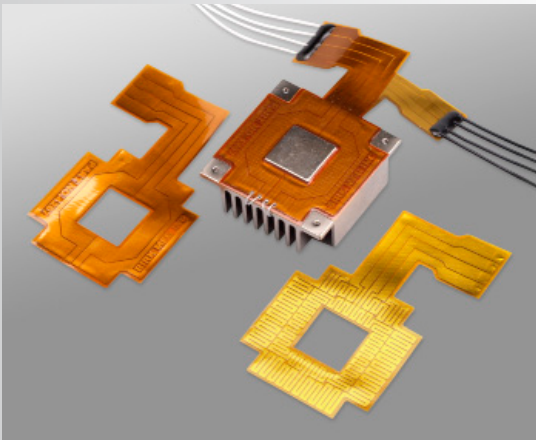


# Thermal Systems for the Semiconductor Industry



## **Birk Heaters are Designed to Provide:**

- **Very low out-gassing**
- **Excellent heat transfer to the heat sink**
- **Very even heat distribution**
- **Integrated sensors and flex circuits**

## **Innovating to Support Industry Leaders**

Birk supplies heaters to leading manufacturers in the semiconductor industry. These heaters can be made of silicone rubber, Kapton® polyimide film or mica sheet and are usually bonded with acrylic or a high performance fluorocarbon film (FEP) to the required heat sinks using a Birk proprietary process.

## **Primary Uses: Burn-in, Wafer Fabrication**

Birk heaters are used for burn-in testing of integrated circuits and for maintaining process heat at tightly defined thresholds in the manufacture of wafers for the semiconductor industry.

## **Advanced Designs**

Birk develops innovative and proprietary thermal systems with heaters bonded to heat sinks, and with sensors built into the heat sink with flex circuits to carry the signal to connectors. Many of these thermal systems employ multi-layer circuits to maximize heating area for the heater circuit.

## **High Watt Density**

Birk successfully designs circuits up to 135 watt per square inch. These circuits offer rapid heat-up and close control, with sensors being placed close to the work surface. Back up sensors are also available in case the primary sensor fails.

## **Custom Designs. Prototypes. Fast.**

Birk specializes in “engineered solutions”, not ordinary products you can get elsewhere. Our design team thrives on developing innovative approaches to complex problems. Our continuing implementation of Lean Processes allows us to deliver prototypes in days or weeks, where others quote months. Each thermal system is custom designed to meet the specific requirements of each integrated circuit under test.

## **What Can Birk Do For You?**

**For more information visit [www.birkmfg.com](http://www.birkmfg.com), call 860.739.4170 or email [sales@birkmfg.com](mailto:sales@birkmfg.com)**