

PET (Polyethylene terephthalate) Flexible Film Heaters Specification

PET (Polyethylene terephthalate) flexible heaters, or Film heaters, PET flexible film heaters, PET Pad Heaters, PET flexible pad heaters, PET flexible mat heaters, PET flexible mat heaters, PET blanket heaters, PET blanket heaters, PET heating pad, PET heating pad, PET heating mat, PET heating mats, PET heating blanket, PET flexible pad heaters, PET strip flexible membrane heaters, PET strap flexible heaters, PET flexible Belt heaters, PET ultra thin strip heaters, PET heating sheets, PET heating sheets are ideal for applications with space and weight limitations, or where the heater will be exposed to vacuum, oil, or chemicals. These thin, flexible heaters are rugged, accurate and reliable.

Benefits of PET Heaters:

- Thin, lightweight heaters allow you to apply heat where it's needed, reducing operating costs
- Etched-foil heating technology provides fast and efficient thermal transfer for increased heat
- Customized options (i.e. SMT components, flex leads and connectors) offer turnkey solutions to drastically reduce assembly time and increase productivity
- Custom profiling gives uniform thermal performance of the heating output to improve processing yields and productivity

Technical specifications:

Temperature range: -50~100C, Upper limit with 0.003 inch (0.08mm) foil backing is 100C.

Material: 0.002 inch PET/0.05~0.1mm

Resistance tolerance: +/-10%

Dielectric strength: 1000VRMS

Minimum bend radius: 0.03 inch (0.8mm)

Lead wire: PTFE insulated, stranded,

Current capacity (based on 100C max ambient temperature):

AWG 30-3.0 A; AWG 26-5.0 A; AWG 24-7.5 A; AWG 20-13.5 A.

Maximum thickness of heater: 0.012 inch/0.3mm

Standard thickness: 0.1~0.2mm

Configuration: PSA backing

Features of PET Heaters:

- FEP internal adhesive for use to 100°C (392°F)
- UL component recognition available
- Suitable for vacuum environments (NASA-RP-1061)
- NASA approved materials for space applications (S-311-P-079)
- Resistant to most chemicals: acids and solvents

- Radiation resistant to 10^6 rads (custom option)
- Very small sizes available
- Fluid immersible designs available (not standard)

Typical Applications:

- Medical diagnostic instruments: Heat sample trays, cuvettes, reagent bottles, etc.
- Warm satellite components
- Protect aircraft electronic and mechanical devices against cold at high altitudes
- Stabilize optoelectronic components
- Test or simulate integrated circuits
- Enable cold weather operation of outdoor electronics such as card readers or LCDs
- Maintain constant temperature in analytic test equipment

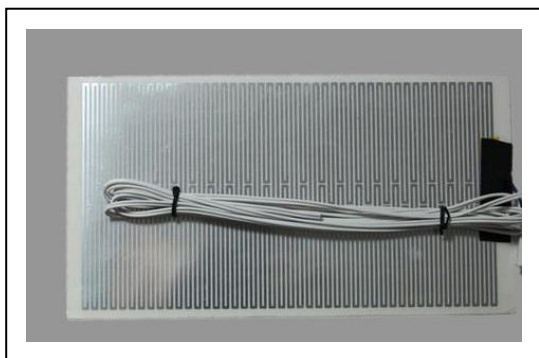
PET Flexible Film Heaters by pictures show:



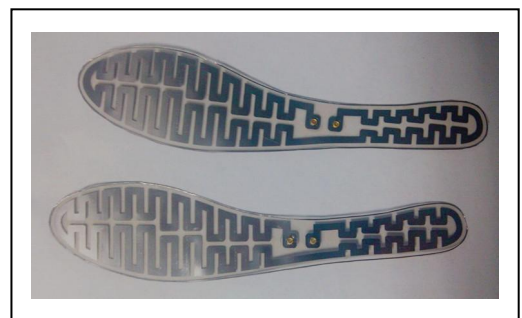
PET flexible film strip heaters



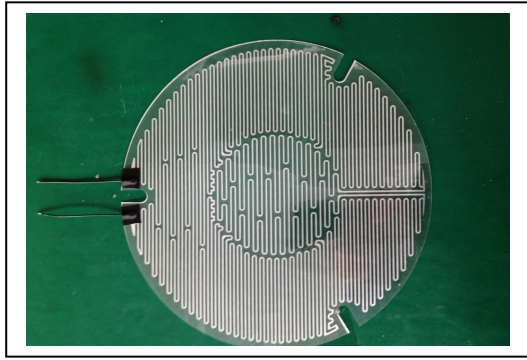
PET film heating pad mat sheets



PET heating film for battery warming



PET warming heating insole



Round Circle shape PET film Heaters



Abnormal shape PET film heating pad mat sheet