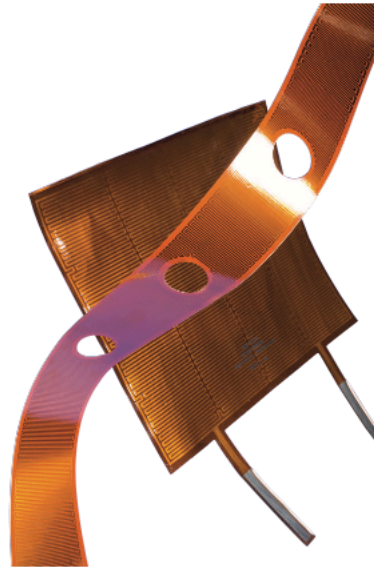


Polyamide Heaters TDS

Polyamide is a thin, lightweight organic polymer film which provides excellent tensile strength, tear resistance and dimensional stability. This heater is ideal for applications requiring low outgassing in a vacuum, or resistance to radiation, fungus and chemicals. Polyamide is also solvent resistant.

Performance Capabilities

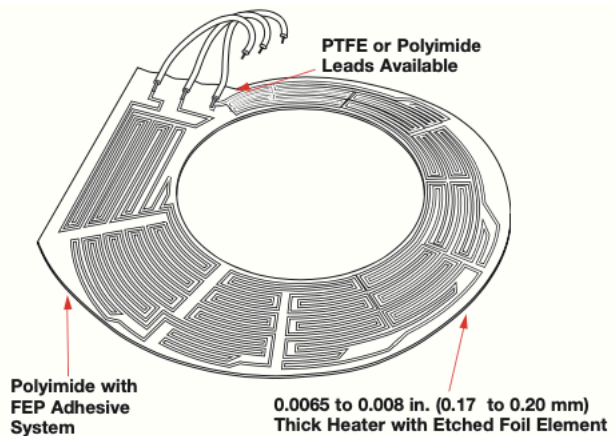
- For operating environments as low as -60°C , heater temperature as high as 150°C .
- Watt densities up to 50 W/in^2 (7.75 W/cm^2)¹



Typical Applications

- Medical applications that require a clean, sterile environment
- Laboratory research
- Semiconductor processing equipment
- Optical equipment
- LCD displays
- Computer equipment
- Photographic equipment
- Aerospace/defence, where low outgassing properties are required

Note: Watt density limits are application dependent (operating temperatures, bonding method and heat sink).



Features and Benefits

Excellent physical and electrical properties

- Results in thermal stability over a wide temperature range
- Transparent polyamide material

- Allows inspection of internal details.

Resistance of radiation and fungus

- Allows it to be used in a wide range of applications

Specifications

Thickness : 0.007 in. (0.2 mm)

Flexibility (min. radius): $\frac{1}{32}$ in. (0.8 mm)

Weight: 0.05 g/cm²

Operating temperature: Max.: 150°C, Min.: -60°C

Watt density rating on stock units : 5 W/in² (0.8W/cm²)

Dielectric strength : 1000 VAC

Flammability rating: Self-extinguishing

Heater size limitations: 18 x 26 in. (457 mm x 660 mm)

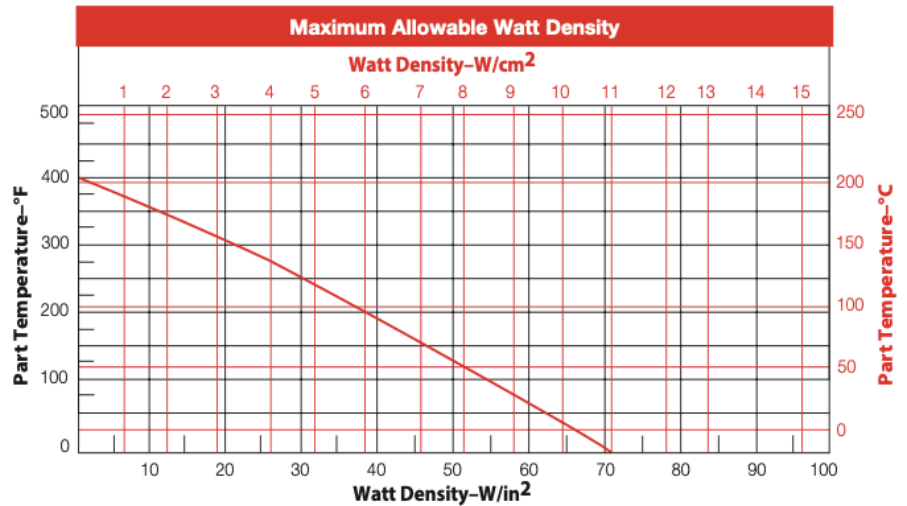
Weight loss (outgassing): 0.51%

Lead length: 12 in. (305 mm) PTFE E

Maximum Allowable Watt Density Versus Temperature

To achieve optimum performance with your Watlow polyimide heater, use a proper watt density on the surface of the heater.

The graph recommends watt densities for temperatures using a temperature controller. It does not indicate the watt density needed to achieve a given part temperature.




Note: The maximum watt density (W/in²) in open air is 5 W/in². The chart above assumes bonding the polyimide heater to a part.

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