

## UPP Series (PTC Heating element)



### APPLICATION

Medical equipment, Battery heating, Foodservice equipment, Factory bonding and subassemblies, Photographic equipment, Optical equipment, Material Handling, Freeze protection for hardware, any application requiring a flexible shape or design, More detail.

Make safer Technology manufactures a variety of flexible heaters including Ethel foil heater, Film heater, Silicone rubber heaters, Drum heaters, Polyimide (Kapton film) heaters, PET heaters and Flexible mica heaters.

### INTRODUCTION

Flexible heaters are just what the name implies: thin, bendable and shaped to fit your equipment.

You can apply heat to the most complex shapes, geometries conceivable without sacrificing efficiency or dependability.

### FLEXIBLE HEATER TYPES

<u>Materials</u>	<u>Max. watt density</u>	<u>Max. temp.</u>	<u>Thickness</u>
Silicone rubber	2.1 W/cm	260°C	0.8~2mm
Polyimide (Kapton)	7.8 W/cm <sup>2</sup>	200°C	0.12mm
PET	0.2 W/cm <sup>2</sup>	80°C	0.2~0.4mm
Mica	12.0 W/cm <sup>2</sup>	600°C	0.75mm

### ADVANTAGE

High, low & variable watt density heating element, high performance under a variety of condition.