

## General Description of Double Sided Polyimide Heat Resistant Tapes

The double sided polyimide tape consists of a polyimide film with silicon adhesive on both sides. The tape is wound between two polyester liners. The two liners make clean handling of the tape easy: unwind the tape from the first liner and leave on the second liner. Apply tape and remove second liner. Advantages of the polyimide tape are:

- Heat resistant
- Can be used over a wide temperature range
- Excellent adhesion on difficult surfaces
- Minimal adhesive transfer
- Vacuum compatible
- Temporary sample holding / positioning

When used as a temporary tape or transfer tape, avoid pressing down on the tape. Due to its low outgassing properties the double sided polyimide tape is a ideal for high vacuum applications for sample processing. Excellent electrical and thermal insulation properties with a high dielectric strength. Although the use temperature range is specified as -75 to +260°C, polyimide tape has been successfully used in the temperature range of -196 to +400°C.

Applications for double side polyimide tape are:

- Holding samples for vacuum deposition
- Holding TEM grid during deposition and processing
- Positioning tape for cryo applications
- Masking in high temperature environments
- Electrical insulation on transformers, coil and electro motors.

### Specifications:

<b>Tape material</b>	Polyimide
<b>Adhesive</b>	Silicone adhesive
<b>Color</b>	Amber to brown
<b>Film thickness</b>	0.03mm
<b>Adhesive thickness</b>	0.04mm (2x)
<b>Total tape thickness</b>	0.11mm
<b>Liner thickness</b>	0.12 (2x0.06)
<b>Adhesive strength</b>	26N / 25mm
<b>Tape strength</b>	200 kPa
<b>Dielectric strength</b>	6.5 kV
<b>Chemical resistance</b>	Excellent to acids, oils and solvents
<b>Use temperature range</b>	-75 to +260 °C
<b>Length</b>	20m
<b>Core diameter</b>	76mm (3")

Available in widths of 5, 10 and 20mm, with a length of 20m. Clean 76mm diameter plastic core.