PI High Temperature Tape

PI5300 · Adhesive Tape Series



Description

PI high-temperature tape uses polyimide film as the base material, coated with silicone pressure-sensitive adhesive. Polyimide film also features high dielectric strength, making it an ideal material for high-voltage insulation. PI high-temperature tape delivers excellent physical properties, including good adhesion, high temperature resistance, solvent resistance, strong holding power and residue-free removal.

Product Features

- High temperature resistance
- Chemical resistance
- High dielectric strength
- Excellent flexibility

Standard / Certification

ROHS · REACH

Technical Data

Property	Unit	Model
Product Grade		PI5300
Color		Amber
Substrate		Polyimide Film
Adhesive		Silicone Pressure-sensitive Adhesive
Total Thickness	mm	0.050 ± 0.002
Peel Adhesion	g/25mm	450 ± 100
Tensile Strength	N/25mm	40
Elongation	%	40%
Breakdown Voltage	KV	5
Heat Resistance	℃	260
Environmental Certification		ROHS2.0 REACH

Notes

• Note: The above parameters are typical values for reference only.

Product Advantages

- **High Temperature Resistance**
  Polyimide film coated with silicone adhesive rated 260℃ – maintains stable adhesion throughout high-temperature spraying and surface treatment.
- **High Dielectric Strength**
  High dielectric strength (breakdown voltage 5KV) makes it an ideal material for high-voltage insulation.

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Product Advantages (continued)

- **Excellent Adhesion, Residue-free**
  - Stays firmly adhered under heat, removing without residue or edge lifting to protect workpiece surfaces and appearance.
- **Chemical Resistance**
  - Resists solvents and common chemical media with stable performance during masking processes.
- **Excellent Flexibility**
  - Flexible film conforms to curved and irregular structural parts with good edge sealing.
- **Ultra-thin Conformability & Eco-friendly**
  - Total thickness of only 0.050±0.002mm conforms tightly; compliant with ROHS2.0 and REACH.

Application Scenarios

- **Chassis & Cabinet Coating Masking**
- Masking protection for chassis and cabinets during high-temperature spraying or surface treatment.
- **Metal Structural Parts Masking**
- Precise masking of metal structural parts under high-temperature spraying and surface treatment – residue-free, no edge lifting.
- **High-Voltage Electrical Insulation**
- Leveraging its high dielectric strength for insulation protection in high-voltage applications.