

Polyimid-Tape METOTAPE K-90

(High temperature tape)



METOTAPE K-90 is a high temperature tape based on Polyimid.

It is a polyimide film, single coated with a silicone adhesive. It retains its excellent physical and electrical properties over a wide temperature range up to 240°C, especially suitable for the high temperature application of PCB plating, Transformer, coil and capacitors.

The flame retardant, x-ray-proof, chemical resistant tape with heat curing special silicone glue is available in roll widths from 5 mm to 300 mm.

The carrier film is made of polyimid, tear proof and dimensionally stable in a wide range of temperature. It can be peeled off easily without any residues after usage.

METOTAPE K-90 was developed especially for the use in the electronic industry. Mainly used to cover gold contacts, PCB areas, PCB masking, connectors etc. to protect these areas during HAL, soldering or other manufacturing steps.

It also can be used to temporarily fix sensors, temperature strips etc. to a surface. Common tapes can burn from temperatures above 100°C. METOTAPE K-90 can resist a temperature of 260-280°C for a short period of time, and 240°C constantly.

In 3D printing, this tape is used to allow better adhesion of prints to the print bed. Due to the mechanical stress of the 3D model to be printed, it may happen that it comes off the print bed and the printout has to be repeated. Misprints are significantly reduced in conjunction with this tape. Due to the high mechanical strength of the film, the surface structure of the print also improves.

METOTAPE K-90 provides these benefits:

- High tackiness of about 25 oz/inch
- Film thickness 90 µm incl. glue film
- Backing thickness 50 µm
- High thermal resistance 240 °C, short time above 260°C
- High chemical resistance
- High tear resistance ≥ 50 N/cm
- Dielectr. breakdown: 13 kV
- Colour: translucent amber

Storage:

Unused rolls, 12 months from delivery in original packing, stored dry and cool at about 50 % rH / 20°C

Application:

- Cover during soldering
- Cover during powder coating
- Cover during chemical process
- 3D printing,



Sizes

METOTAPE K-90 comes in rolls of 33-m, roll widths 8, 13, 19, 25 mm from stock, any other width from 5 to 500 mm please allow a lead time of 2-3 weeks.

Technical Data:

Color	Amber	
Adhesion type	Silicone	
Backing material	Polyimide film	
Film Thickness	2 Mil	ASTM D 3652
Adhesive Thickness	1.5 Mil	
Total Thickness	3.5 Mil	
Adhesion to steel	25oz/inch	ASTM D 3330
Tensile Strength	70(lbs/inch)	ASTM D 3759
Elongation	>50%	ASTM D 3759
Dielectric Strength	13 kV	
UL-94 Flammability Rating	V-0	
Insulation Resistance	2 MOhm	
Electrolytic Corrosion Factor	1	
Insulation Class, CAS, Centigrade	180°C	
Temperature Resistance	<260°C (500°F)	
Tape size range	W(1~500)mm x L(33) meters	

Structure

