



PLAIN PI KAPTON BASE FILM

ENGINEERING SPECIFICATIONS



PRODUCT DESCRIPTION

Plain PI (Polyimide) Kapton Base Film is a high-performance polyimide film featuring excellent thermal stability, electrical insulation, chemical resistance, and mechanical properties. Widely used in electronics, electrical insulation, aerospace, automotive, and industrial applications.

TYPICAL PROPERTIES

PROPERTY	VALUE
Color	Amber (Transparent)
Material	Polyimide (PI)
Density	1.42 g/cm ³
Tensile Strength	≥ 231 MPa
Elongation at Break	≥ 50%
Dielectric Strength	≥ 188 kV/mm
Surface Resistivity	≥ 1.0 × 10 ¹⁶ Ω·cm
Volume Resistivity	≥ 1.0 × 10 ¹⁶ Ω·cm
Continuous Use Temp.	-269°C ~ +400°C
Flammability	UL94 V-0
Low Outgassing (TML)	≤ 1.0%
Moisture Absorption	≤ 1.5%

STANDARD SPECIFICATIONS

• THICKNESS OPTIONS

Nominal Thickness	
μm	mil
12.5	0.5
20	0.8
25	1.0
30	1.2
40	1.6
50	2.0
75	3.0
100	4.0
125	5.0
150	6.0
175	7.0
188	7.5
250	10.0

• ROLL LENGTH OPTIONS

Nominal Length	ft
33	108
50	164
100	328
Custom	Available

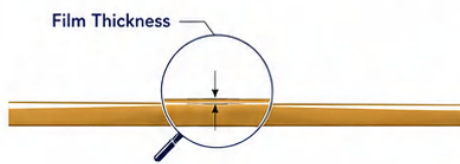
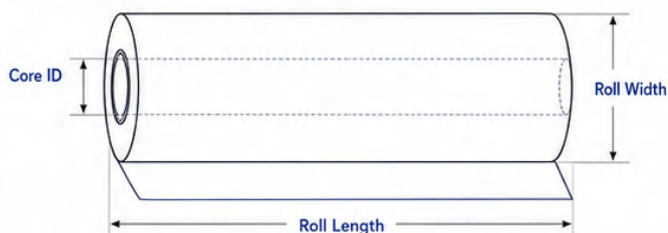
• WIDTH OPTIONS

Nominal Width	
mm	inch
10	0.39
20	0.79
25	0.98
30	1.18
50	1.97
100	3.94
200	7.87
250	9.84
300	11.81
500	19.69
1000	39.37
Custom	Available

• CORE ID

Standard Core	3 inch (76 mm) 6 inch (152 mm)
Custom Core	Available

DIMENSIONAL DIAGRAM



Note: All values are typical and not for specification purposes.
Custom sizes and packaging available upon request.



High Temp
Resistance



Excellent
Insulation



Chemical
Resistance



Flame
Retardant