



BLACK MATTE PI MASKING FILM

ENGINEERING SPECIFICATIONS

PRODUCT DESCRIPTION

Black Matte PI Masking Film is a premium matte surface polyimide film designed for high temperature masking, soldering protection, powder coating, and electronic manufacturing applications.



TYPICAL PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE
Color	—	Black (Matte)
Material	—	Polyimide (PI)
Density	g/cm ³	1.42
Thickness Tolerance	μm	±10%
Tensile Strength	MPa	≥ 231
Elongation at Break	%	≥ 50
Dielectric Strength	kV/mm	≥ 188
Surface Resistivity	Ω/□	≥ 1.0 × 10 ¹⁰
Volume Resistivity	Ω·cm	≥ 1.0 × 10 ¹⁰
Continuous Use Temp.	°C	-269 ~ +260
Flammability (UL94)	—	V-0
Moisture Absorption	%	≤ 1.5
Chemical Resistance	—	Excellent
Matte Surface (Gloss)	GU (60°)	≤ 5

THICKNESS OPTIONS

Thickness (μm)	Thickness (mil)
12.5	0.5
25	1.0
30	1.2
50	2.0
75	3.0
100	4.0
125	5.0
150	6.0
188	7.5
250	10.0

STANDARD COLOR

Black (Matte)

Custom colors available upon request.

ROLL WIDTH OPTIONS

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

ROLL LENGTH OPTIONS

Length (m)	Length (ft)
33	108
50	164
100	328
200	656
Custom	Available

CORE SIZE OPTIONS

Core ID (mm)	Core ID (inch)
76	3.00
152	6.00
Custom	Available

STORAGE CONDITIONS



Temperature
15 ~ 25°C



Relative Humidity
35 ~ 65% RH

Store in original packaging.
Keep away from direct sunlight and moisture.

DIMENSIONAL DIAGRAM



THICKNESS DIAGRAM

