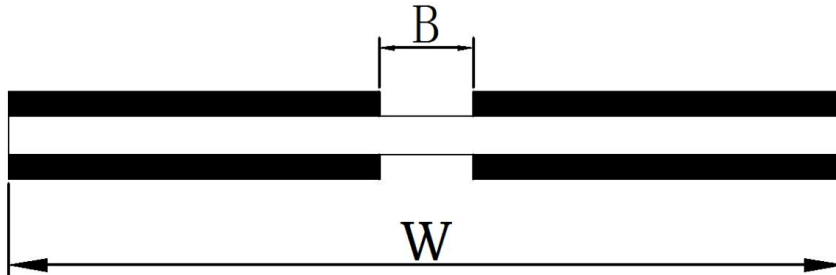




Capacitor Grade Metallised Plastic Film

Double side metallization PET film with Aluminum (Center margin)



Base film	Polyester Film
Normal thickness	4.8 μ m ~12.0 μ m
Margin type	Middle
Coating metal	Aluminum
Coating side	Double
Edge structure	No heavy edge

Square resistance

Normal film Width and Margin

Square resistance	Tolerance
1.5 Ω /□	± 30%
2.0 Ω /□	± 30%
2.5 Ω /□	± 30%

宽度(W) Width (mm)	留边量(B) Margin(mm)	宽度(W) Width (mm)	留边量(B) Margin(mm)
14	3.0	38	3.0
18	3.0	42	3.0/4.0
20	2.0/3.0	52	3.0/4.0

Note: If customer needs other resistance, film width or margin, please contact us.

Inside/outside core diameter:

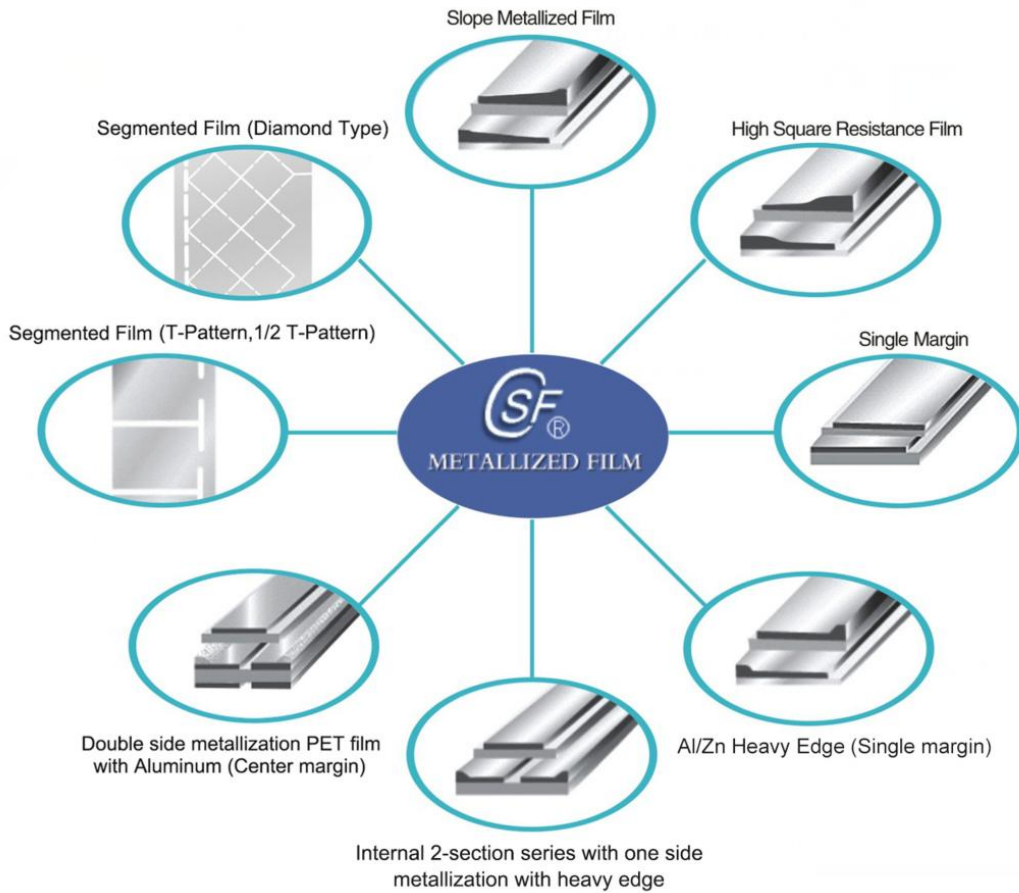
Inside core diameter/Tolerance	Outside core diameter/Tolerance
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75mm	+1/-0.5mm	175	±25mm
		220	±20mm
Note: A pair tolerance of outside core diameter $\leq 2\text{mm}$.			



Types of Metallized Layer:





Type and named of metallized film:

MPPHZn/AlH

类型代码
Type code

5.8*100*2.5

规格尺寸
Specification size

S

留边形式
Margin type

Type code		Specification size	Margin type	
M	Metallized	The first section: Thickness Unit: μm	S	Single margin
PP	Polypropylene film		T	Double margin
PET	Polyester film	The second section: width Unit: mm	M	Middle margin
PPH	High temperature OPP film		R	Internal three series
Zn	Metal coating is Zinc	The third section: Margin width Unit: mm	V	Internal four series
Al	Metal coating is Aluminum			
H	Heavy edge			
D	Double side metallized			
F	Segmented metallized film			

The representation method of film thickness is by adding a decimal point to the integral value of the film thickness or adding an English code (see the following table).

English code	Numerical number	English code	Numerical number
Negative tolerance		Positive tolerance	
B	-0.4	V	+0.1
C	-0.3	W	+0.2
D	-0.2	X	+0.3
E	-0.1	Y	+0.4
L	0	Z	+0.5

For example: 6D means thickness is $5.8\mu\text{m}$, 2W means thickness is $2.2\mu\text{m}$



Specifications of Metallised polypropylene film:

Properties	Unit	Typical value
Density	g/cm ³	0.905±0.005
Thickness	μm	2.0 ~ 12
Tensile Strength	MD (MPa)	≥100
Elongation at Break	MD (%)	20~200
Elastic Modulus	MD (MPa)	2800
Heat Shrinkage	MD (%)	≤5 (120°C, 10min)
Wetting Tension	mN/m	38 (电晕处理面 Corona treated side)
Surface Roughness	μm	0.08
Melting Point	°C	172
Volume Resistivity	Ω .m	>10 ¹⁵
Break-down Voltage	V/μm	≥350 (23°C, DC)
Dielectric Constant		2.2 (20°C, 1KHz)
Dissipation Factor		≤4×10 ⁻⁴ (20°C, 1KHz)
RC	Ω F	≥5×10 ⁴

Specifications of Metallised polyester film:

Properties	Unit	Typical value		
Density	g/cm ³	1.4		
Thickness	μm	<5	5~12	≥12
Tensile Strength	MD (MPa)	≥84	≥108	≥120
Elongation at Break	MD (%)	≥22	≥33	≥44
Elastic Modulus	MD (MPa)	3500		
Break-down Voltage	V/μm	≥200 (23°C, DC)	≥250 (23°C, DC)	
Heat Shrinkage	MD (%)	≤2.5 (150°C, 10min)		
Surface Roughness	μm	0.095		
Melting Point	°C	256		
Volume Resistivity	Ω .m	>10 ¹⁵		
Dielectric Constant		3.2		
Dissipation Factor	-	≤60×10 ⁻⁴		
RC	Ω F	≥1×10 ⁴		



Packing:

- Film rolls are packed in plastic bags, vacuumed and put into desiccant for heat sealing.
- The Bags are marked with type labels, mark thickness width, free margin width and resistance.
- The bags are packed in carton cases.

The cartons are wrapped by wooden cases or reinforced carton.



■ Storage

- Metallized film should be stored in its original package with temperature 5 - 35°C and humidity less than 85%RH before using.
- Metallized layer is easily oxidized when exposure to moisture. Therefore, the film should be used as soon as possible when opened.
- The recommended temperature is 15 -25°C with humidity less than 60%RH after opening
- With original sealed package, and stored as mentioned above, the storage time can be as following:

Al metallized film: 12 months from the delivery date. Al/Zn Alloy metallized film: As zinc is quite unstable, the storage period (from delivery date) depends on the resistance of the film:

$\leq 10 \Omega / \square$: 6 months

$10 \sim 30 \Omega / \square$: 3 months



Anhui Safe Electronics Co.,Ltd www.anhuisaifu.com

>30 Ω /□: 1month