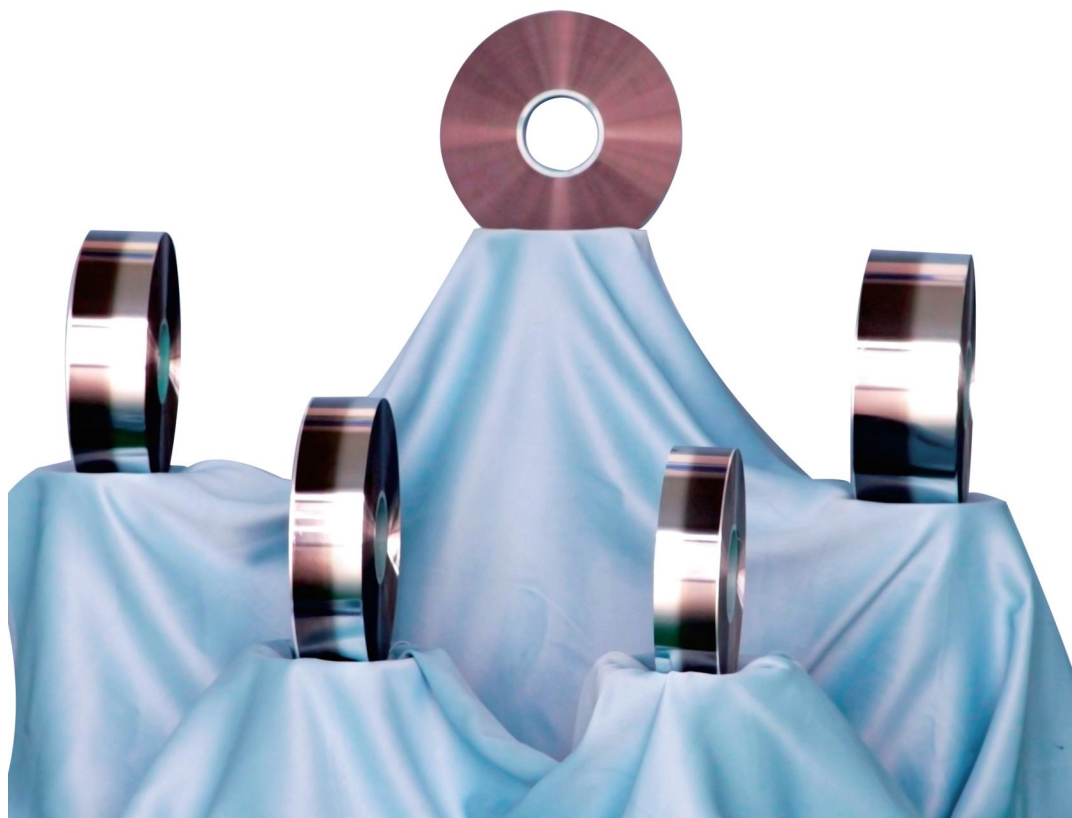


I 产品展示 Product Display



产品说明 Product manual

一、锌铝金属化聚丙烯膜和聚酯膜：

Zinc aluminum metallized polypropylene film and polyester film

1. 基膜 Basement membrane

基膜厚度：Basic film thickness

OPP: 2um ~ 16um

PET: 1.4um ~ 12um

厚度偏差：Base film thickness tolerance $\pm 5\%$

基膜供应商：Base film supplier

OPP:

泉州嘉德利、河北海伟、安徽铜峰、江苏中立方或双凯、四川东材等等
(根据客户需求选择北欧高温膜和韩料高温膜)

Quanzhou Jiadeli, Hebei Haiwei, Anhui Tongfeng, Jiangsu Zhongcubic or Shuangkai, Sichuan Dongcai, etc
(Choose Nordic high-temperature film and Korean high-temperature film according to customer needs)

PET:

美国杜邦、仪化东丽、安徽铜爱 (根据客户要求)

DuPont, Yihua Dongli, Anhui Tongai (according to customer requirements)

2. 纯铝、锌铝或纯铝锌加厚金属化膜

Thick metallized film of pure aluminum, zinc aluminum, or pure aluminum zinc

(1). 锌铝金属化膜： Zinc-aluminum Metallized film



注：加厚区宽度= (留边宽度 + 2mm) ± 1 mm

Remark: Heavy edge width= (margin area width + 2mm) ± 1 mm

规格：Specification

成品规格 (mm) Thickness	屏蔽带宽度 (mm) Margin Area	加厚区方阻 ($\Omega/\square$) Heavy edge square resistance	工作区方阻 ($\Omega/\square$) Working area square resistance
9	1、1.5、2	1-4	≤ 15
14	1、1.5、2	1-4	≤ 15
37.5	1.5、2、2.5	1-4	≤ 25
50	1.5、2、2.5	1-4	≤ 25
65	1.5、2、2.5	1-4	≤ 25
75	1.5、2、2.5	1-4	≤ 25
100	1.5、2、2.5	1-4	≤ 25

注：规格和屏蔽带宽度可以根据客户要求设计加工。

Remark: Specification and margin area width are designed by customer demand.

(2). 纯铝锌加厚高方阻金属化膜：Aluminum zinc thickened high square resistance Metallized film



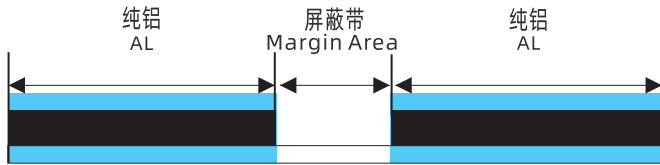
规格：Specification

成品规格 (mm) Thickness	屏蔽带宽度 (mm) Margin Area	加厚区方阻 ($\Omega/\square$) Heavy edge square resistance	工作区方阻 ($\Omega/\square$) Working area square resistance
9	1、1.5、2	1-4	≤ 25
14	1、1.5、2	1-4	≤ 25
37.5	1.5、2、2.5	1-4	≤ 60
50	1.5、2、2.5	1-4	< 100
65	1.5、2、2.5	1-4	< 100
75	1.5、2、2.5	1-4	< 100
100	1.5、2、2.5	1-4	< 100

注：可以根据客户要求设计加工各种成品规格和屏蔽带宽度，加厚区宽度根据客户要求。

Remark: Specification, margin area width and heavy edge width are designed by customer demand.

(3). 双面纯铝金属化膜：Double-sided pure aluminum metallized film:

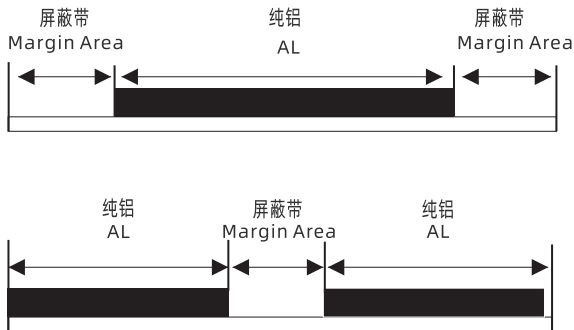


注：可以根据客户要求设计加工各种双面金属化膜，方阻要求 $1 \sim 2 \Omega/\square$ 。

Remark: Various double-sided metallized films can be designed and processed according to customer requirements, with a square resistance requirement of $1-2 \Omega/\square$

(4). 纯铝或锌铝金属化膜 Pure aluminum or zinc aluminum metallized film

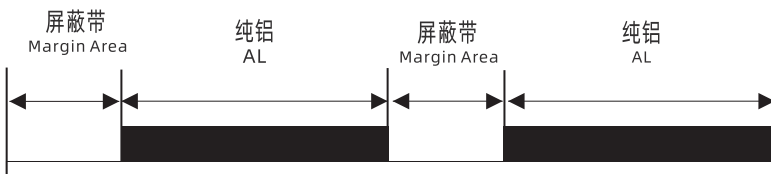
a. 二内串金属化膜：Two inner series metallized film



注：可以根据客户要求设计加工各种规格二内串膜，方阻可以按照客户要求。

Remark: According to customer requirements, design and process various specifications of inner string film, square resistance.

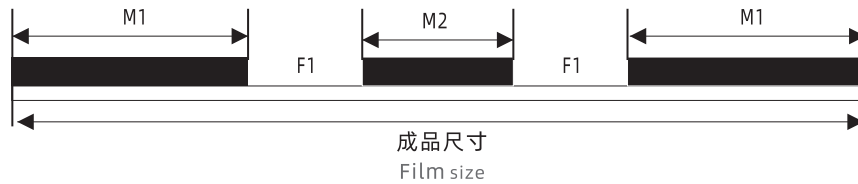
b. 三串金属化膜 Three series of metallized films



注：可以根据客户要求设计加工各种三串金属化膜，方阻要求 $1 \sim 2 \Omega/\square$ 。

Remark: We can design and process various three series of metallized films according to customer requirements, with a square resistance requirement of $1-2 \Omega/\square$.

C. 四内串式金属化膜：Four-in-series metallized film

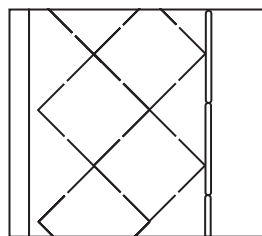


M1(mm)	F1(mm)	M2(mm)
金属层宽度 Metal layer width	屏蔽带宽度 Margin Area Width	中间金属层宽度 Middle Metal layer width

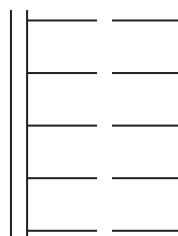
注：串式金属化膜尺寸可以根据客户要求设计加工同时也可以加工锌铝膜和纯铝锌加厚膜,方阻根据客户要求。
Remark: Serial metallized film size can be designed and processed according to customer requirements, but also can process zinc and aluminum film and pure aluminum zinc thick film. Square resistance according to customer requirements.

3. 纯铝、锌铝或纯铝锌加厚安全膜

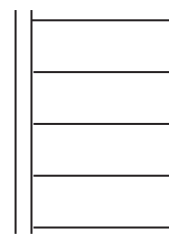
Aluminum, zinc aluminum or pure aluminum zinc thickened safety film



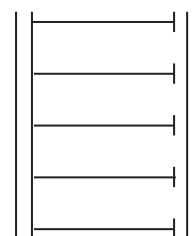
网状安全膜
Mesh safety film



TD型安全膜
TD type safety film



TD安全膜
TD safety film



T型安全膜
T type safety film

注：可以根据客户要求设计加工各种形状安全膜套、蒸镀方式及方阻要求。

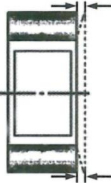
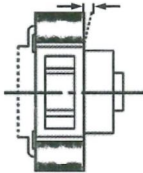
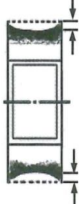
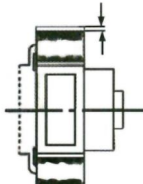
Remark: We can design and process various shape safety film sleeves, evaporation methods and square resistance requirements according to customer requirements.

二、书写说明 Named explain

字母 letter	说明 Meaning
P	聚丙烯 Polypropylene film
T	聚酯 Polyester film
Z	锌 Metal coating is Zinc
A	铝 Metal coating is Aluminum
H	加厚 Heavy edge
L	单留边 Single margins
2L	双留边 Double margins
C	中留边 Middle margin
R	串式 Series
W	波浪分切 Wave slitting
F	网状安全膜 Mesh safety film
TD	TD型安全膜 TD type safety film
T	T型安全膜 T type safety film

三、成品膜卷外观尺寸技术指标：

Technical date of roll appearance

图示 Picture	项目描述 Item	膜卷外径 OD (mm)	允许误差 Permissible deviation
	端面盘形 Radial wobble	155	0.2
		175	0.3
		240	0.3
	轴向偏移 Axial excursion	155	0.3
		175	0.4
		240	0.5
	卷边翘起 Reinforced edge	155	0.1
		175	0.2
		240	0.3
	膜层位移 Lateral wobble	155	0.15
		175	0.2
		240	0.3
	偏心率 Wobbling	155	0.2
		175	0.4
		240	0.5

四. 基膜技术指标：Technical indicators of base film

1. 聚丙烯膜技术指标 (OPP)

Technical date of polypropylene film

序号 ITEM	项目 Description		指标 Technical date
1	密度 (g/cm ³) DENSITY		0.91
2	拉伸强度 (Mpa)纵向 TENSILE STRENGTH(Mpa) MD		≥120
3	断裂伸长率 (%) ELONGATON AT BREAK	纵向 MD	≥80
		横向 TD	≥50
4	弹性模量 (MPa) MODULUS OF ELASTICITY		≥2300
5	热收缩率(%) 120 °C± 2 °C, 15min SHRINKAGE	纵向 MD	≤2
		横向 TD	≤0.5
6	吸水率 (%) WATER ABSORPTION	24h,20±2°C	< 0.1
7	介电强度 (V/um) Dielectric strength	DC	≥420
		AC	≥240
8	介电系数 50HZ、1KHZ、100KHZ EIELECTRIC CONSTANT		2.2±0.2
9	CR值 (ΩF) CR Value		≥2.5×10 ⁻³
10	损耗正切值 DISSIPATION FACTOR	50HZ	≤2×10 ⁻⁴
		1KHZ	≤2×10 ⁻⁴
		100KHZ	≤3×10 ⁻⁴
11	自愈点 NUMBER OF PINHOLES	420VDC	< 2

2. 聚酯基膜技术指标 (PET)

Technical data of Polyester base film

序号 ITEM	项目 Description		指标 Technical data
1	密度 (g/cm ³) DENSITY		1.395
2	拉伸强度 (Mpa)纵向 TENSILE STRENGTH (Mpa) MD		≥150
3	断裂伸长率 (%) ELONGATION AT BREAK	纵向 MD	≥110
		横向 TD	≥75
4	弹性模量 (MPa) MODULUS OF ELASTICITY		≥4300
5	热收缩率 (%) 120 °C± 2 °C, 15min SHRINKAGE	纵向 MD	≤2
		横向 TD	≤1
6	吸水率 (%) WATER ABSORPTION	24h, 20±2°C	< 0.5
7	介电强度 (V/um) Dielectric strength	<5um	≥220
		5-12um	≥270
8	介电系数 50HZ、1KHZ、100KHZ DIELECTRIC CONSTANT		3.2±0.2
9	CR值 (ΩF) The of CR value		≥6×10 ⁻⁴
10	损耗正切值 DISSIPATION FACTOR	50HZ	≤2×10 ⁻⁴
		1KHZ	≤40×10 ⁻⁴
		100KHZ	≤180×10 ⁻⁴
11	自愈点 NUMBER OF PINHOLES	420VDC	< 5