

## 金属化聚酯膜

### Metallized PET (polyethylenetherephtalate) films

#### ◆ 特点 Feature

金属化薄膜是在真空状态下，将铝或锌铝蒸镀到薄膜的表面。该材料介电常数大，绝缘电阻高，耐热性能好，抗拉伸性能好，适用于制作金属化聚酯薄膜电容器。

The AL or ZN-AL layer deposited by evaporation under vacuum, big dielectric constant and insulation resistance, and excellent shrinkage and tensile strength. Widely used in Metallized PET film capacitors.

#### ◆ 类型 Type

Type	产品名称 Name of product
AT-S	单面单留边铝金属化聚酯膜 Single margin PET film with oneseid AL metallized
ATD-S	双面单留边铝金属化聚酯膜 Single margin PET film with doubleside AL metallized
AT-R	单面多串式留边铝金属化聚酯膜 Internal many series PET film with oneseid AL metallized
ATH-S	单面单留边铝金属化加厚边聚酯膜 Single margin PET film with oneseid AL metallized and heavy edge
ATZH-S	单面单留边锌加厚边铝金属化聚酯膜 Single margin PET film with oneseid AL metallized and ZN heavy edge
ZATH-S	单面单留边锌铝金属化加厚边聚酯膜 Single margin PET film with oneseid alloy ZN-AL metallized and heavy edge

注：以上型号是常用型号，如果需要别的金属化膜，请联系我们。

Note: Above the type are general, if you need other metallized film, please contact us.

#### ◆ 厚度 Thickness ( $\mu\text{m}$ )

Thickness( $\mu\text{m}$ )	0.9 ~ 23
Tolerance(%)	$\pm 10$

#### ◆ 宽度和留边 Width and Margin width

宽度 Width  $\geq 4.5\text{mm}$ ,

留边 Margin width 0.25mm~4.0mm

#### ◆ 方块电阻 Square resistance

方阻值( $\Omega/\square$ ) Square resistance	偏差 Tolerance
1.0~2.4	$\pm 25\%$
>2.4	$\pm 30\%$

◆ 膜卷内径、外径 Inside core diameter and Roll outside diameter

Inside core diameter(mm)	Roll outside diameter(mm)
$75^{+1}_{-0.5}$	155(130-160)
	175(135-180)
	240(200-250)
	300(260-320)

◆ 薄膜宽度和留边的允许偏差 The tolerance of film width and margin width

薄膜宽度 (B) 及允许偏差 (mm) Film width (B) and tolerance (mm)		留边宽度 (b) 及允许偏差(mm) Margin width (b) and tolerance (mm)	
$B \leq 6.4$	$\pm 0.1$	$b \leq 0.3$	$\pm 0.15$
$6.4 < B \leq 30.0$	$\pm 0.15$	$0.3 < b \leq 1.0$	$\pm 0.2$
$B > 30.0$	$\pm 0.2$	$1.0 < b \leq 2.0$	$\pm 0.25$
		$b > 2.0$	$\pm 0.3$

◆ 聚酯基膜技术指标

**Technical data of PET film**

项目 Item	聚酯膜 Polyester	测试标准 Test condition
密度(g/cm <sup>3</sup> ) DENSITY	1.395	
抗拉强度(Mpa) TENSILE STRENGTH	≥150	
弹性模量(Mpa) MODULUS OF ELASTICITY	≥4300	
拉伸率(%) ELONGATION AT BREAK	MD ≥ 100 TD ≥ 75	
热收缩率(%) SHRINKAGE	MD ≤ 3.0 TD ≤ 1.5	150°C ± 2°C, 30min
吸水性(%) WATER ABSORPTION	< 0.5	24h, 20°C
介电常数(%) DIELECTRIC CONSTANT	3.2	1kHz, 23°C ± 2°C
损耗角正切(×10 <sup>-4</sup> ) DISSIPATION FACTOR	≤ 50	1kHz, 23°C ± 2°C
绝缘电阻(MΩ · μF) INSULATION RESISTANCE	≥30,000	
平均耐电压(VDC/μm) BREAK DOWN VOLTAGE	> 150 (≤3 μm) > 200 (3~4 μm) > 250 (≥4 μm)	
自愈点(PCS/m <sup>2</sup> ) NUMBER OF PINHOLES	≤ 5	At 100 VDC/μm