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6 Microns Metallized BOPET Film
6微米镀铝BOPET薄膜

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APIG-PDS-BPE-025-2026	**Rev. 1.0**	**2026-11-07**	**Product Data Sheet / 产品规格书**

Metallized BOPET film, 6μm, for printing, lamination and flexible packaging, supply to metallized film and capacitor makers.
镀铝BOPET薄膜，6微米，用于印刷、复合与软包装，供应镀铝膜与电容器制造商。

1. TECHNICAL PROPERTIES 技术参数

Property 项目 Specification 规格	
Thickness 厚度	4.5 / 6 / 9 / 12 μm base film
Base film	BOPET (PET)
Metallisation 真空镀层	Vacuum deposited aluminium, silver appearance
Metallised thickness	20 - 60 nm Al (per specification)
Width 幅宽	1,000 - 1,570 mm
Roll length 卷长	3,000 - 12,000 m
Adhesion 粘接力	Class 1 - 2 (tape test)
Barrier	Oxygen transmission < 1 cc/m²/day (dry room)
Surface resistance	≤ 2 Ω/sq (conductivity requirement)

2. TYPICAL APPLICATIONS 典型应用

Metallized polyester film for flexible packaging, decoration, capacitors and reflective layers

3. PRODUCT DESCRIPTION 产品说明

6 Microns Metallized BOPET Film
6 微米镀铝 BOPET 薄膜，真空镀铝、银色，基膜厚度可选 4.5/6/9/12 μm。

6 microns (often written as 6um) represents one of the thinnest commercially available gauges for Biaxially-oriented Polyethylene Terephthalate (BOPET) film. When this ultra-thin substrate is "metallized"—usually with a microscopic layer of high-purity aluminum—it becomes a high-performance material used primarily in specialized industrial and packaging applications.

Key Technical Specifications

Property

Typical Value / Description

Thickness

6um (0.006mm/24 gauge)

Material

Polyester (PET) resin stretched in two directions

Metallization

Vacuum-deposited Aluminum (VMPET)

Optical Density

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Typically 2.0 to 2.8 (Adjustable based on barrier needs)

Surface Tension

>40 dynes/cm (Standard for printing/lamination)

Core Advantages

- Superior Yield: Because it is so thin, 6-micron film provides a much higher "square-meter-per-kilogram" yield compared to standard 10 or 12-micron films, making it highly cost-effective for high-volume runs.

- High Barrier Properties: The aluminum layer acts as a shield against oxygen, moisture, and light, significantly extending the shelf life of sensitive products.

- Thermal Stability: BOPET maintains its dimensions and strength even at high temperatures, which is critical during the high-speed lamination or printing process.

- Flexibility: The ultra-thin nature allows it to conform to complex shapes better than thicker foils or films.

Primary Applications

1. Flexible Packaging (Lamination)

This film is rarely used alone; it is typically the middle layer in a multi-layer laminate.

- Example Structure: PET (Outer)/6um VMPET (Barrier)/PE (Sealant).

- Used for snacks, powdered milk, and coffee packaging where a high moisture barrier is non-negotiable.

2. Yarn & Textiles (Metallic Thread)

6-micron film is a preferred choice for producing Lurex or metallic yarns. The film is slit into incredibly narrow ribbons and twisted with fibers like cotton or polyester to create glittery, decorative textiles.

3. Insulation & Thermal Control

Used in the manufacturing of "space blankets," radiant barriers for construction, and cryogenic insulation. It reflects up to 97% of radiant heat .

Handling Challenges

Due to its extreme thinness, 6-micron film requires precise tension control on machinery. It is more prone to:

- Web Breaks: High-speed converting requires sophisticated equipment to prevent snapping the film.

- Wrinkling: Small misalignments in rollers can cause permanent increases in the thin material.

- Static Charge: Thin polyester is highly prone to static buildup, often requiring active de-ionizing bars during processing.

5. HS CODE & REMARKS 海关编码与备注

Item 项目 Value 内容	
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