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4.5 Microns BOPET Film silver metallized (4.5–5 μm)
4.5–5微米BOPET银色镀铝膜

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APIG-PDS-BPE-009-2026	**Rev. 1.0**	**2026-11-07**	**Product Data Sheet / 产品规格书**

Metallized BOPET film, 4.5μm, for printing, lamination and flexible packaging, supply to metallized film and capacitor makers.
镀铝BOPET薄膜，4.5微米，用于印刷、复合与软包装，供应镀铝膜与电容器制造商。

3. PRODUCT DESCRIPTION 产品说明

4.5 Micron Silver Metallized BOPET
4.5–5 微米 BOPET 银色镀铝膜，镀铝层为真空镀铝。具体指标见技术参数与镀铝膜技术数据表。

4.5 Micron Silver Metallized BOPET Film , this material represents the high-performance intersection of ultra-thin gauge technology and advanced vacuum deposition. At 4.5 microns, it offers a high yield per kilogram, making it exceptionally cost-effective for large-scale industrial applications.

1. Enhanced Barrier Performance

While the base BOPET provides structural integrity, the vacuum-deposited aluminum layer (typically Ångströms thick) creates a "tortuous path" for molecules.

- Light Barrier: 100% opacity in the UV and visible spectrum, preventing degradation of light-sensitive contents.

- Moisture & Oxygen: Significantly lowers the WVTR (Water Vapor Transmission Rate) and OTR (Oxygen Transmission Rate) compared to plain film.

2. Advanced Surface Characteristics

- Reflectivity: High specular reflection (mirror-finish) for premium aesthetics and thermal insulation (radiant heat reflection).

- Surface Tension: Treated to maintain high dyne levels (typically dynes/cm), ensuring that inks and lamination adhesives bond permanently to the metal side.

- Metal Adhesion: Engineered to prevent "metal pick-off" during high-speed rewinding or subsequent lamination.

Key Application Breakdown

Processing & Handling Recommendations

- Tension Control: Due to the 4.5um thickness, precise tension control is mandatory. We recommend ultrasonic sensors and low-inertia rollers to prevent stretching or "web-breaks."

- Static Management: Metallized films can generate significant static; the use of active ionizer bars during slitting is highly recommended.

- Storage: Should be stored in a climate-controlled environment (°C, humidity) to prevent "oxidation" of the aluminum layer, which can dull the silver luster over time.

Quality Standards

Our 4.5 micron film is tested for:

- Optical Density (OD): Measured to ensure consistent aluminum thickness across the web.

- Pinholes: Rigorous inspection to ensure barrier integrity.

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- Coefficient of Friction (COF): Optimized for "Excellent Machinability" on high-speed VFFS (Vertical Form Fill Seal) machines.

- 4.5 Microns BOPET Film silver metallized, Bopet polyester metallized film has a super reflective, mirror- like surface. It is a oriented polyester film with a very

- thin coating of aluminum that is vacuum deposited on to the surface of the film. This film is used in a variety of

- industrial and applications, including printing, packaging, crafts and many other applications.

- Main features of bopet polyester metallized film

- a. Good Metal Bond Strength

- b. Good Barrier properties of oxygen, light, water vapor

- c. Good Lamination Bond Strength

- d. Excellent Machinability

- Technical Performance:

5. HS CODE & REMARKS 海关编码与备注

Item 项目 Value 内容	
HS Code 海关编码	3920620000
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