

TRANSPARENT BARRIER

ES-T

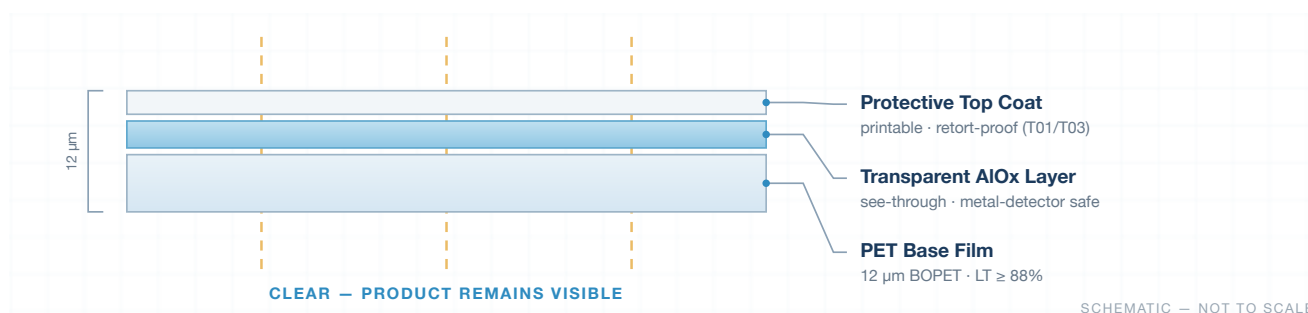
Transparent AlOx Barrier PET Film

01 · PRODUCT DESCRIPTION

Aluminium-oxide (AlOx) coated PET — metallized-level barrier without the metal. See-through so buyers watch the product, metal-detector compatible so lines keep scanning, microwave and 121°C retort ready.

02 · FILM STRUCTURE

FIG. 01 FILM STRUCTURE



03 · KEY FEATURES

01 Transparent High Barrier

Aluminium-oxide coating delivers OTR down to ≤ 0.5 cc/m²-day while staying optically clear (LT ≥ 88%) — replaces aluminium foil, VMPET, EVOH, and SiOx where the brand wants a see-through pack.

03 Microwave & Retort Ready

ES-T01 and ES-T03 withstand 121°C / 30 min retort; the whole family is microwaveable. Ready-meals, coffee, and pharma pouches you can heat in the pack.

02 Metal-Detector Compatible

AlOx is non-metallic, so filled packs pass in-line metal detection — the one thing an aluminium-metallized film physically cannot do on a food line.

04 Mono-material & Compliant

Enables lighter, more recyclable structures with less foil. Complies with FDA, EU, REACH, RoHS and GB 4806.7 food-contact standards.

04 · APPLICATIONS

See-through Retort Pouches | Microwaveable Ready Meals | Coffee & Tea (clear window) | Pharmaceutical Blister | Metal-Detected Food Lines | Mono-material Recyclable Packaging

ITEM	UNIT	ES-T	ES-T01	ES-T03
Thickness	μm	12	12	12
Light Transmittance	%	≥ 88	≥ 88	≥ 88
OTR	cc/m ² ·day	≤ 2.0	≤ 0.5	≤ 0.5
WVTR	g/m ² ·day	≤ 2.0	≤ 1.0	≤ 0.5
AlOx Coating Adhesion	N/15mm	≥ 3.0	≥ 3.0	≥ 5.0
Coating Uniformity	%	5	5	5
Density	g/cm ³	1.4	1.4	1.4
Tensile Strength MD/TD	MPa	≥ 170	≥ 170	≥ 170
Elongation MD/TD	%	≤ 200	≤ 200	≤ 200
Heat Resistance	—	Pasteurize ≤100°C	Retort 121°C	Retort 121°C
Printable	—	✓	✓	✓
Metal-Detector Safe	—	✓	✓	✓

Three grades: ES-T (standard, pasteurizable) / ES-T01 (retort) / ES-T03 (flagship, highest barrier). Transparent AlOx coating on 12 μm BOPET. Complies with FDA / EU / REACH / GB 4806.7. Thickness and width customizable.

— — 06 · PACKAGING & STORAGE

Standard packaging: roll form, wrapped in PE film, packed in carton box with foam protection. Store in a cool, dry environment (temperature below 35°C, humidity below 75% RH). Avoid direct sunlight. Shelf life: 12 months from date of manufacture under proper storage conditions.