

TECHNICAL DATA SHEET

ES-H Series

Ultra-High Barrier Metallized PET Film

Product Description

The ES-H series delivers industry-leading barrier performance with OTR as low as ≤ 0.1 cc/m²-24h (H03 grade). Designed for maximum shelf life extension, this series provides exceptional moisture and oxygen barrier properties along with superior UV light blocking for the most demanding packaging applications.

Key Features

- Three performance tiers: ES-H / ES-H01 / ES-H03
- Exceptional moisture and oxygen barrier performance
- Superior UV light blocking capability
- OTR down to ≤ 0.1 cc/m²-24h (H03 grade)
- Ideal for shelf life extension of sensitive products

Applications

Tea & Coffee | Pharmaceuticals | Electronics | Spices | Nutraceuticals | Sensitive Food Products

Technical Specifications

Property	Unit	ES-H	ES-H01	ES-H03
WVTR (38°C, 90% RH)	g/m ² -24h	≤ 1	≤ 0.8	≤ 0.3
OTR (23°C, 0% RH)	cc/m ² -24h	≤ 1	≤ 0.5	≤ 0.1
Al Adhesion	N/15mm	≥ 1.5	≥ 2.0	≥ 2.5

Available: 6 μ m–100 μ m thickness. Width and length customizable.

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.

Customization

Available thickness: 6µm – 100µm. Width and length are fully customizable to your production requirements. Contact our sales team for custom specifications, sample requests, or technical consultation.

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This document is for reference only. Actual specifications may vary. Contact us for detailed testing data.