TECHNICAL DATA SHEET

ES-C Series

Chemical Coated Metallized PET Film

Product Description

The ES-C series features a proprietary chemical coating that achieves the highest aluminum adhesion in the Expansteel product range — up to ≥ 4.0 N/15mm (C01 grade). The ES-C01 grade withstands 121°C retort processing, making it suitable for the most demanding applications in retort packaging, liquid packaging, and pharmaceutical products.

Key Features

- Al adhesion up to ≥ 4.0 N/15mm (C01 grade) — industry-leading
- Withstands 121°C retort processing (C01 grade)
- Excellent water and chemical resistance
- 2-layer structure can replace traditional 3-layer designs
- Pasteurization compatible across all grades

Applications

Retort Packaging | Liquid Packaging | Dairy Products | Pharmaceuticals | Ready Meals | Sauce Pouches

Technical Specifications

Property	Unit	ES-C01	ES-C02	ES-C03
Al Adhesion	N/15mm	4.0	2.8	3.0
Pasteurization	—	✔ Pass	✔ Pass	✔ Pass
Retort ≤ 121°C	—	✔ Pass	✘	✘

Available: 6μm–100μm thickness. Width and length customizable.

Cost-Saving Potential

The exceptional adhesion strength of ES-C series allows converters to simplify their packaging structures. A 2-layer construction using ES-C can achieve equivalent or superior performance compared to traditional 3-layer structures with aluminum foil, resulting in significant material cost savings and improved sustainability.

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.
