



ROLL-STOCK SHEETS / TECHNICAL DATA SHEET

PET HIGH-BARRIER ROLL-STOCK SHEET

PET/EVOH/PE multilayer sheet combining rigidity, barrier protection and a heat-sealable PE surface.

DOCUMENT ID: EGD-HBPET-TDS | REVISION: 01 | ISSUE DATE: 20 AUGUST 2026

STRUCTURE PET / EVOH / PE WVTR <= 2 OTR <= 5	
PROPERTY	STANDARD REQUIREMENT
PRODUCT IDENTIFICATION	
Product	PET/EVOH/PE High-Barrier Roll-Stock Sheet
Reference size	1.0 mm thickness x 610 mm width; other dimensions subject to approved order specification
Intended use	Thermoformed food trays and disposable containers requiring rigidity, moisture protection and oxygen barrier
MULTILAYER STRUCTURE	
Nominal layer ratio	82% PET / 2.5% tie / 5% EVOH / 2.5% tie / 8% PE
PET layer	Structural PET layer providing stiffness and rigidity
Tie layers	Bonding resin between PET, EVOH and PE
Barrier layer	EVOH oxygen-barrier layer
Sealant layer	LDPE/LLDPE heat-sealable PE layer; masterbatch or colorant optional
DIMENSIONS AND PHYSICAL PROPERTIES	
Average thickness tolerance	+/- 0.03 mm; GB/T 6672 / ASTM D374
Width tolerance	+/- 3 mm; customer requirement or GB/T 6673
Roll length / weight	To order; no more than one splice per roll
Density	1.20-1.30 g/cm ³ ; GB/T 1033
Interlaminar peel strength	>= 2.5 N/15 mm; GB/T 8808
Heat-seal strength - PE side	Temperature and dwell time set to customer equipment; tested after in-house sealing to GB/T 1040
BARRIER PERFORMANCE	
Water vapor transmission rate	<= 2 g/(m ² x 24 h) at 38 deg C, 90% RH; GB/T 1037 / ASTM E96
Oxygen transmission rate	<= 5 cm ³ /(m ² x 24 h x atm) at 23 deg C, 0% RH; GB/T 19789 / ASTM D3985
SURFACE AND APPEARANCE QUALITY	
Color	Uniform and consistent with the approved sample, without significant color variation
Surface	Smooth and flat; free of wrinkles, crystal points, impurities, bubbles and scratches
Roll edge / end face	Neat and free from severe bulging; lateral misalignment <= 2 mm
Splice and cleanliness	No more than one secure, clearly marked splice per roll; free from oil, dust and other contamination
COMPLIANCE, PACKAGING AND STORAGE	
Food-contact compliance	GB 4806 series, FDA or EU 10/2011 as specified and supported for the final approved construction
Sensory / restricted substances	No abnormal odor; relevant limits for Pb, Cd, Hg, Cr(VI) and other leachable substances apply
Core and packing	76, 152 or 204 mm core ID; clean PE film or kraft paper with stretch-film overwrap
Storage and transport	Store upright in a cool, dry, clean place below 70% RH; protect from sunlight, heat, rain, impact and vibration
Shelf life	12 months from manufacture under the specified storage conditions

TYPICAL APPLICATIONS Modified-atmosphere and barrier trays for meat, cheese, prepared foods and other shelf-life-sensitive products; disposable food containers.

TECHNICAL NOTE Barrier limits apply only under the stated test conditions. Customer-specific dimensions, heat-seal settings, regulatory requirements and finished-package performance shall be confirmed through sample approval and final order specification.