THE PACKAGING LAB
CUSTOM PACKAGING MADE SIMPLE

FILM SPECIFICATIONS

THICK CLEAR + MATTE BOPP — Pouches & Rollstock

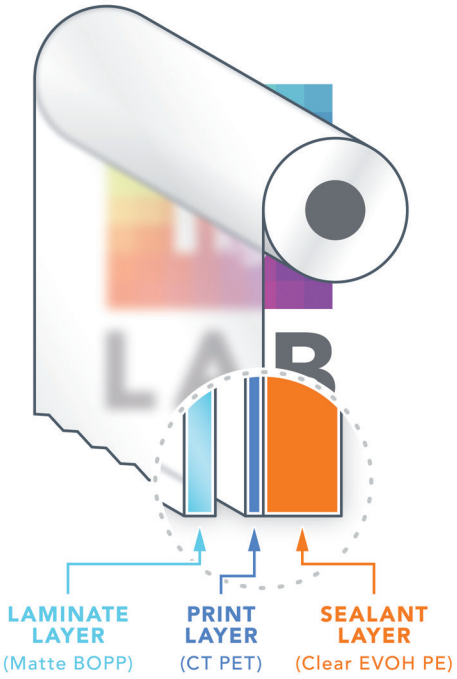
DESCRIPTION

This film is ideal for durable applications requiring oxygen/moisture barrier properties and puncture resistance.

Clear film can create transparent product windows and/or translucent color effects in printed artwork.

Matte finish has low shine, and colors in printed artwork may be slightly muted. Matte clear film will give product windows a "frosted glass"-like effect.

Evaluation and fitness-for-use is the sole responsibility of the customer.



STRUCTURE

Composite: 4.9mil 3-layer laminated film

- Laminate (Exterior) Layer: 1.3mil matte BOPP (Biaxially-Oriented Polypropylene)
- Print Surface Layer: 48ga CT PET (Corona-Treated Polyethylene Terephthalate)
- Sealant (Interior) Layer: 3.0mil clear EVOH PE (Ethylene-Vinyl Alcohol Copolymer/Polyethylene)

FEATURES

- Excellent puncture resistance with good oxygen/moisture barrier
- All materials comply with FDA direct food contact regulations
  (BOPP: 21 C.F.R. § 177.1520, PET: 21 C.F.R. § 177.1630, EVOH: 21 C.F.R. § 177.1360)
- PET is chemically stable and resistant to attack by oils, solvents, weak acids, and weak alkalis
- EVOH provides strong seal-to-self fusion with low activation temperature
- EVOH has slip additive for reduced friction on packaging equipment

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TESTING STANDARD(S)
Total Avg. Thickness (Composite, calculated)	4.9 mil (≈ 124.5 microns)	GB/T 6672 (Laminate layer) ASTM D2103 (Print + sealant layers)
Thickness Tolerance	±10 %	
Yield (Composite)	6,131 in^2/lb	Calculated
COF (Coefficient of Friction)	≤0.4 (Laminate/exterior surface) 0.20–0.35 (Sealant/interior surface)	ASTM D1894
Haze (Laminate layer)	≥70 %	ASTM D1003
Gloss (Laminate layer, 45°)	≤8 %	GB/T 8807
Seal/Application Temp. (Sealant layer)	250–350 °F 120–180 °C	
Seal Strength (Sealant layer, self-to-self)	≥9 lb/in	ASTM F88
OTR (Oxygen Transmission Rate)	≤0.06 $cm^3/100\ in^2/24\ hr$	ASTM D3985
WVTR (Water Vapor Transmission Rate)	≤0.063 $g/100\ in^2/24\ hr$	ASTM F1249
Film Shelf Life	12 mo from delivery	
Storage Temperature Range	50–80 °F 10–26 °C	
Storage Humidity Range	30–70 %	