THE PACKAGING LAB
CUSTOM PACKAGING MADE SIMPLE

FILM SPECIFICATIONS

MEDIUM CLEAR + GLOSS BOPP — Rollstock Only

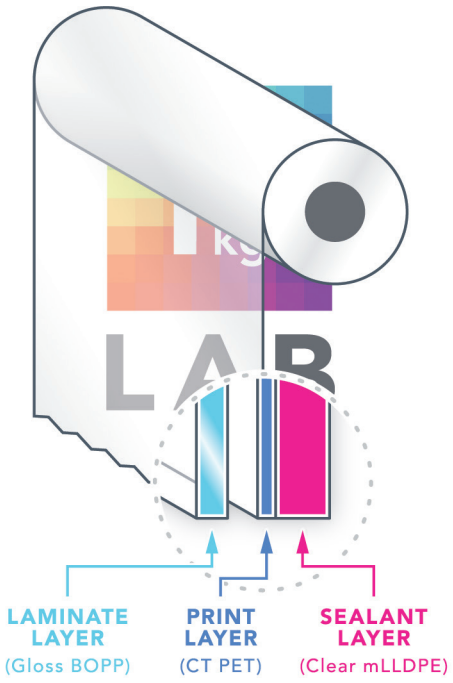
DESCRIPTION

This film is ideal for economical applications requiring heat stability, and is processed easily by FFS equipment.

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

Gloss finish has high shine, and minimal color distortion of printed artwork. Gloss clear film will give product windows a clear view inside.

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



STRUCTURE

Composite: 3.1mil 3-layer laminated film

- Laminate (Exterior) Layer: 1.0mil gloss BOPP (Biaxially-Oriented Polypropylene)
- Print Surface Layer: 48ga CT PET (Corona-Treated PET)
- Sealant (Interior) Layer: 1.5mil clear mLLDPE (Metallocene Linear Low-Density Polyethylene)

FEATURES

- Good heat stability
- All materials comply with FDA direct food contact regulations (BOPP + mLLDPE: 21 C.F.R. § 177.1520, PET: 21 C.F.R. § 177.1630)
- PET is chemically stable and resistant to attack by oils, solvents, weak acids, and weak alkalis
- mLLDPE provides strong seal-to-self fusion with low activation temperature
- mLLDPE has slip additive for reduced friction on packaging equipment

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TESTING STANDARD(S)
Total Avg. Thickness (Composite, calculated)	3.1 mil (≈ 79 microns)	Calculated (Laminate layer) ASTM D2103 (Print + sealant layers)
Thickness Tolerance	±10 %	
Yield (Composite)	9,082 in^2/lb	Calculated
COF (Coefficient of Friction)	≤0.17 (Laminate/exterior surface) ≤0.2 (Sealant/interior surface)	ASTM D1894
Haze (Laminate layer)	64 %	ASTM D1003
Gloss (Laminate layer, 60°)	109 gloss units	ASTM D2457
Seal/Application Temp. (Sealant layer)	250–350 °F 120–180 °C	
Seal Strength (Sealant layer, self-to-self)	≥7 lb/in	ASTM F88
OTR (Oxygen Transmission Rate)	≤7 $cm^3/100\ in^2/24\ hr$	ASTM D3985
WVTR (Water Vapor Transmission Rate)	≤0.6 $g/100\ in^2/24\ hr$	ASTM F1249
Film Shelf Life	12 mo from delivery	
Storage Temperature Range	50–80 °F 10–26 °C	
Storage Humidity Range	30–70 %	