THE PACKAGING LAB
CUSTOM PACKAGING MADE SIMPLE

FILM SPECIFICATIONS

MEDIUM METALLIZED + MATTE BOPP — Rollstock Only

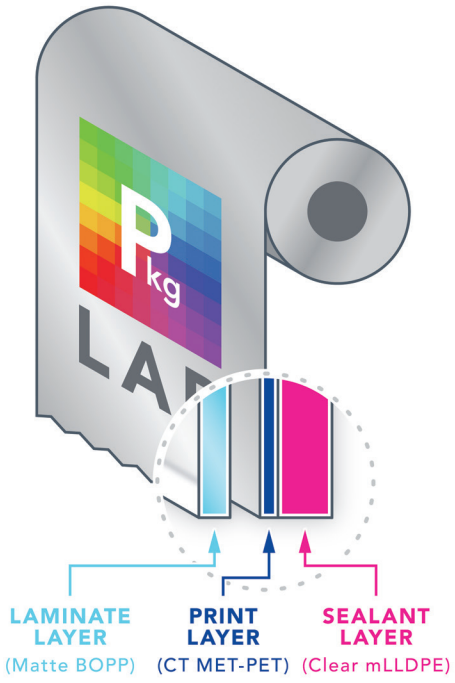
DESCRIPTION

This film is ideal for economical applications requiring heat stability and oxygen/moisture barrier properties, and is processed easily by FFS equipment.

Metallized film will create a metallic silver package interior, and can also create metallic color effects in printed artwork.

Matte finish has low shine, and colors in printed artwork may be slightly muted. Matte metallized film will give metallic artwork a "fogged mirror"-like finish.

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



STRUCTURE

Composite: 3.4mil 3-layer laminated film

- Laminate (Exterior) Layer: 1.3mil matte BOPP (Biaxially-Oriented Polypropylene)
- Print Surface Layer: 48ga CT MET-PET (Corona-Treated Metallized Polyethylene Terephthalate)
- Sealant (Interior) Layer: 1.5mil clear mLLDPE (Metallocene Linear Low-Density Polyethylene)

FEATURES

- Good heat stability and oxygen/moisture barrier
- All materials comply with FDA direct food contact regulations (BOPP + mLLDPE: 21 C.F.R. § 177.1520, PET: 21 C.F.R. § 177.1630)
- MET-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)	3.4 mil (≈ 86.5 microns)	GB/T 6672 (Laminate layer) ASTM D2103 (Print + sealant layers)
Thickness Tolerance	±10 %	
Yield (Composite)	9,220 in^2/lb	Calculated
COF (Coefficient of Friction)	≤0.4 (Laminate/exterior surface) ≤0.2 (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)	≥7 lb/in	ASTM F88
OTR (Oxygen Transmission Rate)	≤0.1 cm^3/100 in^2/24 hr	ASTM D3985
WVTR (Water Vapor Transmission Rate)	≤0.1 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 %	