

CLEAR + MATTE BOPP

Film Specifications - Pouches & Rollstock

Clear matte film offers strong oxygen/moisture barriers, puncture resistance and high shine with minimal color distortion. It's ideal for product windows or translucent effects, giving a clear view inside while enhancing printed artwork.

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

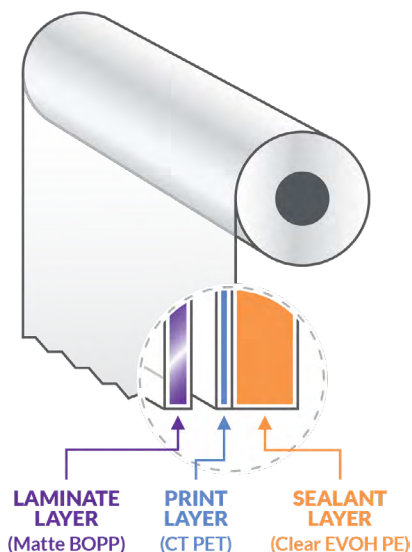
Structure

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 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



PROPERTY	TYPICAL VALUE	TESTING STANDARD(S)
Total avg. thickness (composite, calculated)	4.9mil (≈ 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 %	

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