

FILM SPECIFICATIONS

THICK CLEAR + MATTE — 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 Average Thickness (Composite) | 4.9 mil | GB/T 6672 (Laminate layer) ASTM F2251 (Print + sealant layers) |
| Thickness Tolerance | ±10 % | |
| Yield (Composite) | 6,296 in ² /lb | |
| 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 (45°, laminate layer) | ≤8 % | GB/T 8807 |
| Seal/Application Temperature (Sealant layer) | 250–350 °F 120–180 °C | |
| Seal Strength (Self-to-self, sealant layer) | ≥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 % | |

