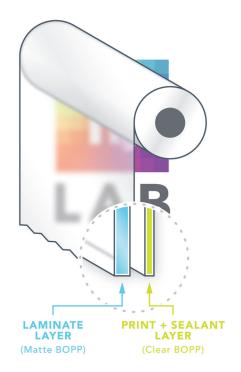
FILM SPECIFICATIONS

THIN CLEAR + MATTE BOPP — Rollstock Only

This film is ideal for snack packs and other vertical FFS applications. It processes easily and has a durable seal for transport.
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.
Composite: 2.7mil 2-layer laminated film
Laminate (Exterior) Layer: 1.3mil matte BOPP (Biaxially-Oriented Polypropylene)

- Print + Sealant (Interior) Layer: 140ga clear BOPP
- High clarity with good seal strength
- All materials comply with FDA direct food contact regulations (BOPP: 21 C.F.R. § 177.1520)
- BOPP provides strong seal-to-self fusion with low activation temperature
- BOPP has slip additive for reduced friction on packaging equipment



| PROPERTY | TYPICAL VALUE | TESTING STANDARD(S) |
|---|--|--|
| Total Avg. Thickness (Composite, calculated) | 2.7 mil (≈ 68.5 microns) | GB/T 6672 (Laminate layer) Calculated (Print + sealant layer) |
| Thickness Tolerance | ±10 % | |
| Yield (Composite) | 13,025 in²/lb | Calculated |
| COF (Coefficient of Friction) | ≤ 0.4 (Laminate/exterior surface) ≤ 0.28 (Sealant/interior surface) | ASTM D1894 |
| Haze (Laminate layer) | ≥70 % | ASTM D1003 |
| Gloss (Laminate layer, 45°) | ≤8 % | GB/T 8807 |
| Seal/Application Temp. (Print + sealant layer) | 210-230 °F 100-110 °C | |
| Seal Strength (Print + sealant layer, self-to-self) | ≥1.008 lb/in | |
| OTR (Oxygen Transmission Rate) | ≤90 cm³/100 in²/24hr | ASTM D3985 |
| WVTR (Water Vapor Transmission Rate) | ≤0.25 g/100 in²/24 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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