FlexPouchMFG™ | YANPACK FLEX Source Manufacturing Base

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121C-135C High-Temperature Retort Pouches & Child-Safe Spouted Pouches Engineering Manual

Executive Engineering Summary: 4-ply autoclave-grade laminate (PET 12 / AL 9 / BOPA 15 / RCPP 80-100 um) engineered with Henkel Loctite Liofol LA 2798 / LA 5800 aliphatic-aromatic PU adhesive (100:18 NCO:OH). Post-retort peel strength >= 3.8 N/15mm, burst pressure >= 0.16 MPa, FDA 21 CFR 177.1390 compliant.

Model Code	Laminate Structure (um)	Measured Barrier & Mechanical QC	2026 FOB Price
FP-SUP-140	MOPP 20 / VMPET 12 / LLDPE 100	OTR <= 0.5, WVTR <= 0.6, Seal >= 45 N/15mm	$0.048-$0.145/pc
FP-FBP-155	PET 12 / AL 7 / NY 15 / PE 110 + WIPF	OTR <= 0.05, WVTR <= 0.05, Valve 4.5-6.5 mbar	$0.115-$0.310/pc
FP-RET-135	PET 12 / AL 9 / BOPA 15 / RCPP 90	135C 45m Autoclave, Peel >= 3.8N, Burst >= 0.16MPa	$0.068-$0.220/pc
FP-SPT-150	PET 12 / AL 7 / NY 15 / PE 100 + Spout	8.6-16mm Spout, Torque 1.2-1.8 N.m, Drop 1.5m	$0.085-$0.265/pc
FP-SAC-SUR	PET 12 / AL 9 / DuPont Surlyn 50	pH 2.5-10.5 Acid/Retinol/Oil Proof, GC <= 0.5 mg/m2	$0.022-$0.065/pc
FP-MSK-130	Soft-Touch PET 15 / AL 9 / PE 95	Zero Curl (<= 1.5mm), Laser Tear Force 1.2-1.8 N	$0.032-$0.078/pc
FP-3DS-160	PET 12 / VMPET 12 / NY 15 / PE 120	Rotary Die-Cut +/-0.15mm, 82% Less Plastic vs Jar	$0.038-$0.240/pc
FP-ROL-095	PET 12 / VMPET 12 / mLLDPE 65 Roll	COF 0.18-0.25, SIT 98C, Hot-Tack >= 4.5N, 200 ppm	$4.10-$5.80/kg
FP-MPE-130	BOPE 25 / 5% EVOH-PE 25 / mLLDPE 80	95.4% Mono-PE (EU PPWR Class A), OTR <= 0.8	$0.055-$0.168/pc
FP-KRF-125	FSC Kraft 50 / NK Cellophane 20 / PLA 60	EN 13432 OK Compost HOME, PFAS-Free <= 10 ppm F	$0.065-$0.195/pc

Dual-Printing & Global Regulatory Compliance Matrix:

- **HP Indigo 20000 Digital Print:** MOQ 500 - 5,000 pcs per SKU | **$0.00 Cylinder Plate Fee** | 5-7 Day Rapid Turnaround.
- **10-Color Rotogravure + Nordmeccanica Solventless:** MOQ >= 10,000 pcs (or 300 kg Rollstock) | Unit Cost –40% to –55% | 12-15 Days.
- **Food & Cosmetic Certifications:** BRCGS Packaging AA Grade, ISO 22716 Cosmetic GMP, US FDA 21 CFR 177.1520 / 177.1390, EU No 10/2011 (OML <= 3.0 mg/dm2), Eurasian EAEU TR CU 005/2011.
- **Free 48-Hour DHL Sample Kit:** 20-30 physical barrier pouches + Batch COA (MOCON OTR/WVTR + Agilent GC solvent trace) + 1:1 Adobe Illustrator CAD Dieline. Contact **Alex Gao** at **alex@flexpouchmfg.com**.