**FlexPouchMFG™ | YANPACK FLEX Source Manufacturing Base**

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# Chemical-Resistant Cosmetic Sampling Sachets (DuPont Surlyn 1652) & Sheet Mask Foil Pouches Dossier

**Executive Engineering Summary:** Engineered for aggressive skincare matrices (15% L-ascorbic acid pH 2.8, 1% retinol, 2% salicylic acid, 15% essential oils). Compares PET/AL/Surlyn 1652 vs PET/AL/COC-PE vs Standard LLDPE across 40C/75% RH 90-day ICH stability. Zero delamination, <= 0.5 mg/m2 GC solvent retention.

| 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**.