One-Hand KP4 V-Snap Breakable Card Packs (Single & Dual-Chamber) — Engineering TDS

0.8mL–3.0mL Semi-Rigid APET/EVOH/PE One-Hand Fold-and-Snap Sachets · ±8µm Laser V-Score · ≥96.5% Evacuation

Verified Corporate & GMP Baseline:
- **Operating Entity:** Guangzhou Yanmei Bio-Technology Co., Ltd. (Tax / Credit ID: `91440106050647021B`)
- **Registered Hub:** Room 801-A, Bldg 8, Plot 5, No. 12 Lvgang 5th St, Huadu Airport Zone, Guangzhou, China
- **Group GMP Credentials:** Parent Co. Fujian Yanse Cosmetics Co., Ltd. holds Bureau Veritas ISO 22716 (`CNSH25778319-ISO22716`), US FDA Cosmetic GMP (`CNSH25778319-USFDA`) & License `闽妆20250005`
- **Sample SLA:** Stock Benchmark Kit in **48 Hours** · Custom Lab Counter-Sample in **7–10 Days** (200% PO Rebate)



1. Multi-Layer Barrier & Unit-Dose Process Architecture

LAYER 1	LAYER 2	LAYER 3	LAYER 4	LAYER 5
Full-Color Printed 350µm APET Top Card	±8µm Precision Laser V-Score Channel	EVOH Chemical/UV Barrier	Liquid/Cream Cavity (1 or 2 Chambers)	120µm PET/AL/PE Bottom Foil

2. Standard Stock-Tooling SKU Matrix, Agile MOQs & Export Carton CBM

Format / Variant	Barrier & Formulation Specification	Agile Pilot MOQ	Lead Time	Export Logistics
1.0–1.5mL Single-Chamber	Serum, Foundation or Mineral SPF50 Trial Card	**10,000 Cards ($0 Die)**	14–18 Days	10 Cartons / 0.34 CBM per 10k
2.0–3.0mL Single-Chamber	Hair Oil, Body Lotion or Cleanser Card Pack	**10,000 Cards ($0 Die)**	14–18 Days	11 Cartons / 0.38 CBM per 10k
2×1.0mL Dual-Chamber	Fresh-Mix Vitamin C + Hyaluronic Acid Card	**10,000 Cards ($0 Die)**	16–20 Days	11 Cartons / 0.38 CBM per 10k
Custom Bottle Silhouette	Bespoke Die-Cut Bottle Shape Billboard Card	**50,000 Cards**	20–24 Days	11 Cartons / 0.38 CBM per 10k

3. Quantitative Laboratory Quality Control & Transit Validation Gates

Inspection Gate	Test Method / Equipment	Acceptance Specification	Commercial Benefit
Laser V-Groove Depth	Confocal Optical Laser Profiler	`± 8 µm Tolerance`	Consistent 90°–135° One-Hand Snap

Inspection Gate	Test Method / Equipment	Acceptance Specification	Commercial Benefit
Planar Crush Resistance	Static Compression Platen Test	`≥ 45 kgf Load Without Burst`	Direct Mailer & Magazine Insert Safe
Product Evacuation Rate	Gravimetric Dispensing Assay	`≥ 96.5% Clean Evacuation`	22% Less Waste vs. Flat Tear Sachets
Dual-Chamber Isolation	Inter-Cavity Seal Integrity	`≥ 30 N Center Divider Seal`	Zero Premature Cross-Mixing

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