

Flexible Packaging Structure Guide

How to turn product protection needs into a practical film structure discussion.

PURPOSE

The right structure starts with the packed product and the converting process. This guide uses common material combinations as conversation starters; the final structure must be checked for the actual product, shelf-life target and packing line.

TYPICAL SOURCING REFERENCE

Illustrative structure	Typical role	Discussion prompt
PET / PE	Printable outer web plus sealant layer	For what product weight, puncture need and pack format?
BOPP / CPP	Clear package appearance with a sealable inner web	Does the application need good moisture resistance and a crisp pack feel?
PET / VMPET / PE	Barrier-oriented laminate option	What oxygen, moisture and light-protection target is needed?
PET / AL / PE	High-barrier laminate option	Is an opaque, high-protection pack suitable for the brand and recycling route?
Paper / film laminate	Tactile or shelf-differentiated outer layer	What sealing, barrier and recycling constraints apply?

Inputs that shape the structure

- Product sensitivity to oxygen, moisture, light, aroma loss, grease, puncture, compression or freezer/chilled conditions.
- Format: sachet, pillow pouch, stand-up pouch, lidding, flow wrap, rollstock or pre-made pouch.
- Process: print method, lamination system, pouch machine, sealing window, line speed and required appearance.

Validation sequence

- 1. Define the product and distribution environment. 2. Review existing pack or target shelf life. 3. Propose sample structures. 4. Run converting and packing trials. 5. Lock the approved specification for recurring supply.
- Document the target barrier, material gauge, width, artwork treatment, roll direction and QC checks in the final specification.

IMPORTANT

These examples are not universal prescriptions. Food-contact, barrier, sealing, recycling and compliance decisions require confirmation against the actual product, region and approved final structure.

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