

Laminate Structure Guide

Which film does what, and how to pick the stack for your product

This guide lists the laminate structures documented across the Perfect Packing range and explains what each layer is there for. It is written for buyers who have to choose a structure against a shelf life target and a filling process, not for a specification that has already been decided.

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Export markets	North and South America, Europe, the Mid East and Africa
Website	https://perfectpackinginc.com

What Each Layer Is For

PET — outer web

Print clarity and stiffness. Carries the gravure printed graphics on almost every laminated format we make.

BOPP — outer web

Used where clarity and cost matter more than stiffness, including flower sleeves and cellophane style bags. Film thickness on our range runs 20 to 100 microns for sleeve film and 17 to 58 micron on OPP and BOPP bags.

Aluminium foil (AL)

Highest oxygen and light barrier and full opacity. Appears in PET/AL/LDPE, PET/AL/NY/LDPE, PET/AL/PET/RCPD and bag in box liners.

VMPET — metallised polyester

A lighter metallised barrier at lower cost and weight than foil. Used in PET/VMPET/LDPE and NY/VMPET/PE bag in box structures.

EVOH

A barrier layer inside a coextruded structure, used where the pack must stay clear. Can be coextruded with polyolefin or polyamide, laminated as film, or applied as a resin coating, all on conventional processing equipment.

Nylon (NY)

Puncture resistance and flex crack resistance. Specified where the pack is handled, folded or holds something with edges.

LDPE — sealant

The standard sealant for ambient and chilled packs.

CPP and RCPD — sealant

CPP where heat resistance is needed; RCPD where the pack is retorted, as in PET/AL/NY/RCPD and PET/AL/PET/RCPD.

Kraft paper and weave paper

Used in flower sleeves and in kraft paper/AL/PE stand up pouch structures where a paper look is required.

Structures Documented Across the Range

Every structure below appears on the specification of at least one format in our catalogue. The count shows how many formats list it.

Structure	Formats listing it
PET/PE	6
BOPP/AL/PE	6
AL/PE	6
PET/LDPE	5
PET/NY/LDPE	5
PET/AL/LDPE	5
PET/PET/LDPE	5
PET/VMPET/LDPE	5
PET/AL/PET/LDPE	5
PET/AL/NY/LDPE	5
PET/PET/RCPP	5
PET/AL/NY/RCPP	5
PET/AL/PET/RCPP	5
OPP/OPP	5
NY/VMPET/PE	3
NY/PE	3
HDPE/LDPE	1

Documented Film Thickness Ranges

From 17, 22, 25, 30, 36, 40, 46, 53 to 58 micron	16 formats
20-100 microns	5 formats
1.2 Mil to 4.0 Mil / 30 Micron to 110 Micron / Custom-Made	3 formats
17, 22, 25, 30, 36, 40, 46, 53 to 58 micron	3 formats
4.72mil/0.12mm, or customized based on your requirement	1 formats
20-100 Microns	1 formats

Before You Confirm a Structure

- State the product, the fill temperature and the target shelf life.
- Say whether the pack is pasteurised, frozen or retorted; retort needs an RCPP sealant.
- Give the fitment your line accepts: spout inner diameter, zipper type or valve.
- Confirm the print colour count so the outer web and lamination method can be set.
- Ask for a sample before the production run and approve the printed proof.