



Info Sheet
Flexible Packaging

Collation Shrink

Polyethylene Resins and Film Formulations

The growing demand for shrink films is driving innovation throughout the polyethylene value chain. At NOVA Chemicals, we work with our customers to understand their needs and the needs of their customers. This guides our work in developing new resins and film structure designs. Each of our projects incorporates the factors that align to market demands, from optics and printability to processability and opportunities for material replacement.

Our portfolio of collation shrink product offerings is designed for three general shrink film performance tiers: basic, mid-level, and premium. The resins targeted for each tier offer performance attributes for the specific requirements of typical applications. Sample structures shown on page 2 illustrate how suitable resin combinations can deliver the right performance for a range of applications.



Commercial-scale Douglas shrink tunnel at the Centre for Performance Applications

Recommended Collations Shrink Products

We've recently added four resins to our collation shrink portfolio. These new resins provide film manufacturers the options to develop custom shrink solutions meeting a wide variety of needs.

GRADE	TYPE	DESCRIPTION
SPs116-C	Octene LLDPE	Superior physical properties and exceptional optics to replace conventional clarity LDPE resins
SCLAIR FP120-C	Octene LLDPE	High-performance blending resin
SCLAIR 19C	HDPE	Stiffening agent
NOVAPOL PF-Y827-FP	Butene LLDPE	Companion resin that provides bulking and stiffness
NOVAPOL PF-Y818-FX	Butene LLDPE	High output companion resin with exceptional optics
NOVAPOL LF-Y320-A	LDPE	High-performance low melt-index LDPE shrink resin
NOVAPOL LF-Y819-A	LDPE	General purpose blending resin
NOVAPOL TF-Y534-IP	Hexene LMDPE	Companion resin that provides superior toughness, stiffness, and high shrink force

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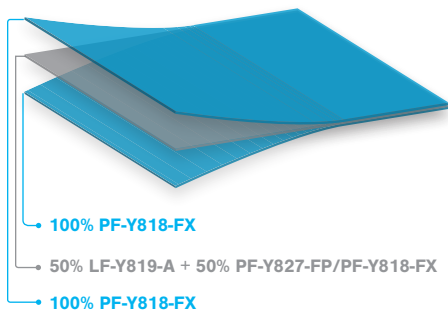
Flexible Packaging



Basic Applications

TYPICALLY USED FOR
UNPRINTED PACKAGES

Reliable package integrity at a competitive total structure cost.



This film formulation shows well in a competitive marketplace, providing reliable everyday performance.

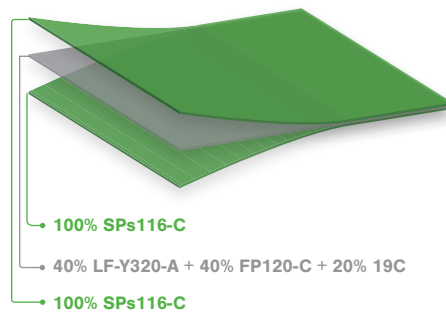
Applications: Water bottles, energy and soft-drink cans, shrink-over-shrink collation.



Mid-Level Applications

TYPICALLY USED FOR PRINTED
AND HEAVIER PACKAGES

Smooth surfaces for print aesthetics and standout shelf appeal.



This workhorse film provides a broad shrink-tunnel temperature range and outstanding physical properties.

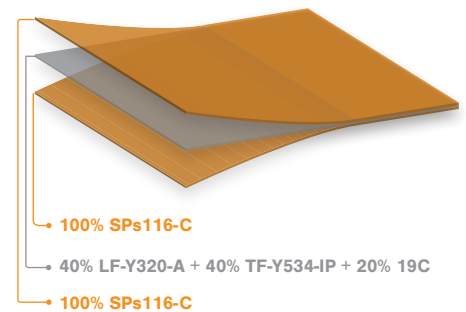
Applications: Larger case-count water bottles, energy and soft-drink cans, shrink-over-shrink collation.



Premium Applications

RECOMMENDED FOR CORRUGATED
AND OTHER MATERIAL REPLACEMENT

Step-out performance resins enable downgauging of high-end shrink packaging.



This high performance film provides a range of features from high shrink force, high stiffness and strong bullseyes to eye-catching print aesthetics and flexibility during processing.

Applications: Beer, energy drinks, premium water, pharma-packs, premium printed, heavy duty transport packs

The film structure designs shown above are for illustrative purposes only. Structures should be customized to specific application requirements and tested for commercial viability.