

ExxonMobil™

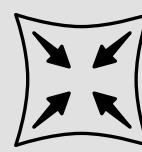
ExxonMobil™ LD 01820 PE resin with high melt strength can contribute to the stability of some of the largest bubbles



Bubble stability



High melt strength



Shrinkability

Data and results presented herein apply specifically to the noted application under this fact sheet. Your results may differ depending on factors such as operating conditions, equipment and materials used.

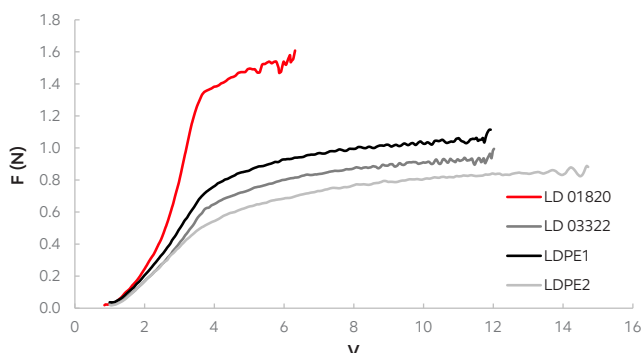
Finding the right solution to ensure bubble stability can be a demanding task. LD 01820 PE resin helps film converters to stabilize the film bubble during fabrication because of the higher melt strength of LD 01820 PE when compared to commonly available LDPE.

	Melt index (g/10 min)	Density (g/cm ³)
ExxonMobil™ LD 01820	0.18	0.920
ExxonMobil™ LD 03322	0.33	0.922

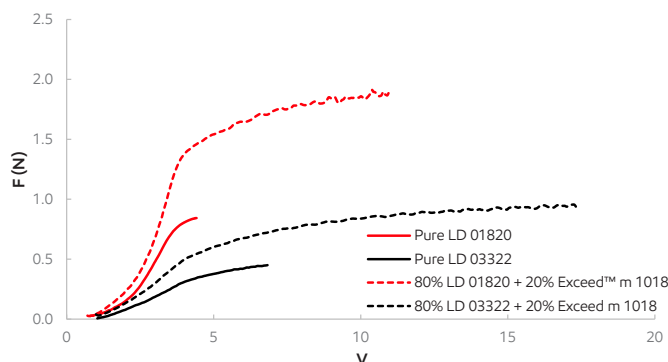
An ideal blend partner

When blended with ExxonMobil performance PE, LD 01820 resin can result in higher melt strength of blends than neat LDPE resin.

Rheotens of neat LDPE at 190°C



Rheotens of blends at 250°C



LDPE1: Melt index: 0.15 g/10 min, Density: 0.920 g/cm³

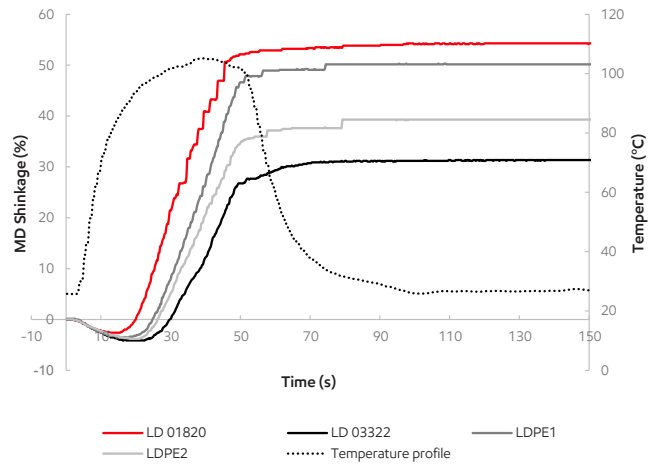
LDPE2: Melt index: 0.25 g/10 min, Density: 0.923 g/cm³

ExxonMobil™ LD 01820 PE exhibits better shrinkability

Due to its molecular structure, LD 01820 exhibits higher shrinkage than other fractional MI LDPE.

In addition, LD 01820 shows faster shrink kinetics and higher shrinkage under relatively low temperature. As a result, it can provide benefits valued in collation shrink applications, especially those requiring low temperature shrinkability.

Retramat of neat LDPE



LDPE1: Melt index: 0.15 g/10 min, Density: 0.920 g/cm³

LDPE2: Melt index: 0.25 g/10 min, Density: 0.923 g/cm³

Test item	Test method
Density	ASTM D1505
Melt index	ASTM D1238
Rheotens	ExxonMobil method
Retramat	ExxonMobil method
Density / specific gravity	Based on ASTM D792

All data in this document have been tested by or on behalf of ExxonMobil

ExxonMobil

Signature Polymers

Bring your impossible

ExxonMobil Signature Polymers was born from the belief that people fuel progress. From automotive and construction to packaging, agriculture, industrial, and beyond, we leverage the scale and reach of ExxonMobil to deliver the insights and innovations that empower our diverse, global partners to take their businesses to new heights. We continuously work to provide the listen-first, service-driven, game-changing collaboration that unlocks opportunities for our partners and advances their business goals.



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What's new: ExxonMobil Signature Polymers

All our polymers are now positioned under a single portfolio brand: ExxonMobil Signature Polymers. The aim is to simplify our product architecture and naming to improve portfolio navigation for you. We would like to stress that our commitment to high quality products remains the same. The composition of the products are unchanged, it is only the names that updated. We will be making these modifications over the next few months, through mid 2025, so you will see both old and new grade names highlighted during that time.

Here's a quick overview of brands and grade names that have changed in this document:

Legacy Commercial Name	New Commercial Name
ExxonMobil™ LDPE LD 080	ExxonMobil™ LD 01820
ExxonMobil™ LDPE LD 065	ExxonMobil™ LD 03322
Exceed™ 1018	Exceed™ m 1018

Some of our existing Exceed, Achieve, Paxon and premium PP/HD grades have moved to Exceed brand; most existing Enable grades have moved to Exceed Flow[+]; most of our existing Exceed XP grades have moved to Exceed Tough[+]; most of our existing Exceed S grades have moved to Exceed Stiff[+]. More details here https://www.exxonmobilchemical.com/en/brands/signature-polymers/exceed_high_performance_polymers or contact your ExxonMobil representative to know more.

Want to see what's changed in our portfolio? Go to [exxonmobilchemical.com/sptransform](https://www.exxonmobilchemical.com/sptransform)