



Exceed™ Exceed™ Flow

Outstanding high clarity film at high throughput rates

Exceed and Exceed Flow metallocene polyethylene (PE) resins allow converters to produce outstanding, high clarity packaging films at high throughput rates.

Delivered attributes	Derived benefits & potential value
Outstanding optical properties	High clarity for product promotion and branding opportunities
Excellent mechanical properties	Improve package integrity performance (less damage and waste)
Outstanding sealing performance	Faster sealing allows higher packaging line speed
Resource efficiency through downgauging opportunities for thinner, stronger films	Downgauging opportunities for thinner, stronger films
	Better package integrity
	Less material use
	Less damage, less waste

This patented coextrusion technology uses Exceed™ m 1018 metallocene PE resin in the outer layers and Exceed™ Flow m 0327 metallocene PE resin in the core layer. This allows converters to produce packaging films which combine outstanding optical properties, excellent mechanical and sealing properties.

Exceed and Exceed Flow metallocene PE-based films are ideal for use in:

- Lamination packaging film
- Bread bags film
- Produce bags film
- Blown stretch film

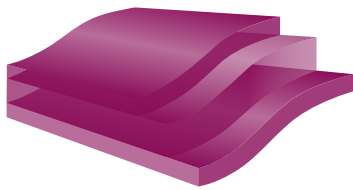
Increased output

Exceed™ Flow m 0327 is easier to process and provides converters with the opportunity to increase output. Tests have shown that by using 20% of Exceed Flow m 0327, film output can be increased by 20% compared with using Exceed™ m 1018 series in the core.

Running Exceed Flow m 0327 resin in the core layer at high output yields films with outstanding optical properties, and excellent mechanical and sealing properties:

- Tear remains very high
- Outstanding dart impact strength
- High tear strength

Figure 1:
Typical three-layer film structure resin



Thickness: 50 µm	
Layer distribution: 1/2/1	
100%	Exceed m 1018
80%	Exceed m 1018
20%	Exceed Flow m 0327
100%	Exceed m 1018

Film properties		Typical value	Test method (based on)	Unit
Tensile strength at break	MD/TD	51/47	ASTM D 882	MPa
1% Secant modulus	MD/TD	192/206	ASTM D 882	MPa
Elmendorf tear strength	MD/TD	10.3/15.9	ASTM D 1922	g/µm
Dart drop impact (A/Face)		>22	ASTM D 1709	g/µm
Haze		4.6	ASTM D 1003	%
Gloss (45° angle)		84	ASTM D 2457	%
Clarity		85	ASTM D 1746	%

Polymer properties	Exceed™ m 1018	Exceed™ Flow m 0327	Test method (based on)	Unit
Melt index	1.0	0.3	ExxonMobil	g/10 min
Density	0.918	0.927	ExxonMobil	g/cm³



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 and business goals.



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What's new: ExxonMobil Signature Polymers

All our polymers are now positioned under a single portfolio brand: 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, it is the names that change. Everything else remains the same. We will be making these modifications over the next six months 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
Exceed™ 1018	Exceed™ m 1018
Enable™ 2703	Exceed™ Flow m 0327

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)