



Exceed™ Tough+

Introducing flexible films with increased stiffness and extreme toughness



Tensile strength



Dart impact



Tear strength



Optical properties

Flexible films with increased stiffness and extreme toughness may have seemed only possible tomorrow but, thanks to patented technology from ExxonMobil, they can be fabricated today. Converters no longer have to compromise between stiffness and toughness.

Films with increased stiffness, extreme toughness and good optical properties can be fabricated by combining 60% Exceed™ Tough+ performance PE polymers with 40% ExxonMobil™ HDPE in the core layer, and 100% Exceed Tough+ in the skin layers. The films deliver optimal tear and dart impact resistance, while stiffness is almost doubled, compared to a film made with pure Exceed Tough+. Combining increased stiffness and extreme toughness opens new opportunities for film downgauging.

Film stiffness delivers machineability, a luxury feel, creep resistance and easier opening and handling, while film toughness provides the integrity to meet end-user performance criteria. Now, there is no need to compromise when creating films for a wide range of applications, including:

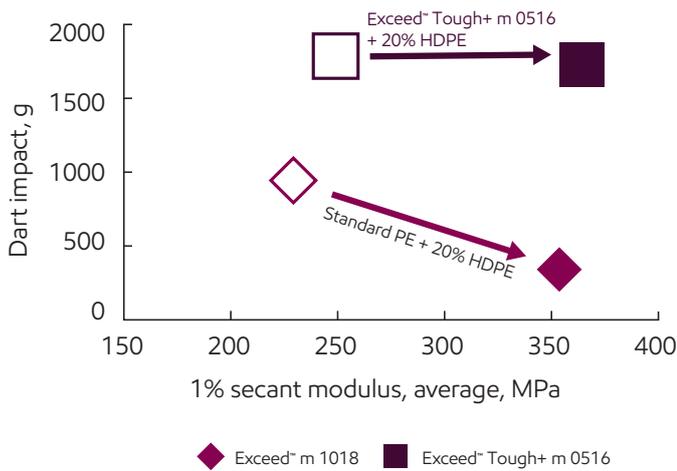
- Packaging
- Agriculture
- Industrial applications
- Hygiene and personal care

Exceed Tough+ & ExxonMobil HDPE = straightforward processability

Flexible films made by combining Exceed Tough+ performance PE polymers with ExxonMobil™ HDPE are straightforward to process using existing equipment.



Performance advantage: increased stiffness and extreme toughness



Exceed™ Tough+ m 0516 + HDPE blends

- > 60% tensile modulus increasing
- Extreme dart impact
- Improved processability
- Potential for significant downgauging without compromising toughness

This new technology is proven to be effective with Exceed Tough+ m 0516/0814/0518 performance PE polymers and ExxonMobil HDPE film grades.

			
Exceed m 1018	Exceed Tough+ m 0516	Exceed m 1018 + HDPE	Exceed Tough+ m 0516 + HDPE
50 µm	50 µm	50 µm	50 µm
3-layer film	3-layer film	3-layer film	3-layer film
Exceed m 1018	Exceed Tough+ m 0516	Exceed m 1018	Exceed Tough+ m 0516
		ExxonMobil HDPE HTA108	ExxonMobil HDPE HTA108

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 and 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, 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
Exceed XP 8656	Exceed Tough+ m 0516

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)