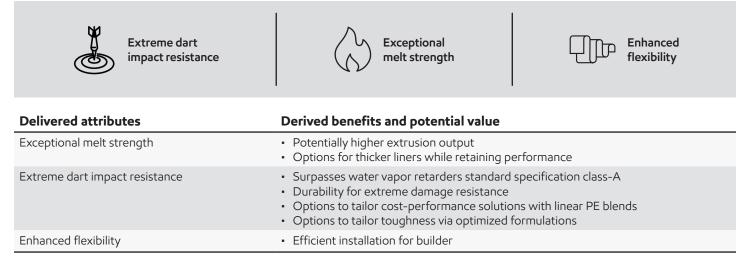


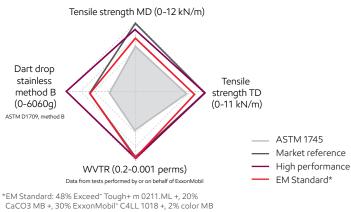


Exceed[™] Tough+

Help builders protect their infrastructure with extremely damage-resistant liners

Exceed[™] Tough+ performance polymers offer a new benchmark for dart impact resistance in construction class-A and other highly demanding solutions that require eXtreme Performance. This new product portfolio enables converters to fabricate extremely-damage-resistant film that can improve the ability to protect and preserve buildings for potential improved energy efficiency and safety.





Exceed Tough+ performance polymers deliver outstanding dart drop resistance, creating a new performance benchmark for construction liners and creating opportunities to optimize formulations using blends.

Extremely damage resistant liners

Exceed[®] Tough+ performance polymers enable converters to efficiently produce incredibly tough construction class-A liners.

These polymers with a 0.2 MI (melt index) at 0.911 density offer a new performance benchmark for construction liner applications, compared to existing linear polyethylene resins. In 10 mil/250 μ m films made with Exceed Tough+ m 0211, the dart impact resistance exceeds the class-A standard specification of 2,200 grams.

The extreme performance of the construction liners provides protection during installation.

Derived benefits include:

- Reduced water vapor penetration for potential energy efficiency and reduced risk of mold formation
- Stronger, more puncture resistant film provides a potential reduction in exposure to make structures safer

Innovation opportunities

Converters and producers are able to create newto-the-world construction liner solutions or they can improve existing liner solutions.

Options include:

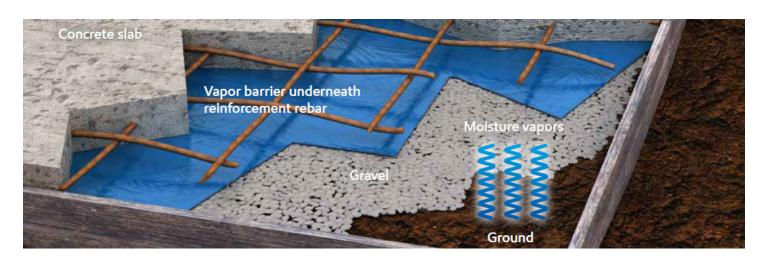
- Tailored liner formulations with lower density linear PE for balanced toughness/barrier performance
- Higher outputs may be possible by leveraging the high melt strength of Exceed Tough+, decreasing dependence on LDPE and enhancing toughness.

Cost optimization

The extreme toughness and bubble stability of Exceed Tough+ allows converters to optimize film formulations with linear blends. These polymers also offer converters opportunities to increase output and improve film consistency even with large bubble sizes. This increases machine utilization and reduces waste from reprocessing.

Grade	Melt index (g/10 min)	Density (g/cm³)	Melt flow ratio (I ₂₁ /I ₂)	Distinguishing features
Exceed Tough+ m 0211	0.20	0.911	41	High toughnessExceptional melt strengthEnhanced flexibility

Test methods based on: Melt index and Melt flow ratio - ASTM D1238; Density - ExxonMobil method



Contact us for more information: exxonmobilchemical.com/pe

ExconMobil Signature Polymers

Bring your impossible



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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				
ExxonMobil [™] LLDPE LL1001				
Exceed XP 7021				

New Commercial Name ExxonMobil C4LL 1018 Exceed Tough+ m 0211

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