



Help builders protect their infrastructure with extremely damage-resistant liners

Exceed™ XP 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.



Extreme dart impact resistance



Exceptional melt strength



Enhanced flexibility

Delivered attributes

Derived benefits and potential value

Exceptional melt strength

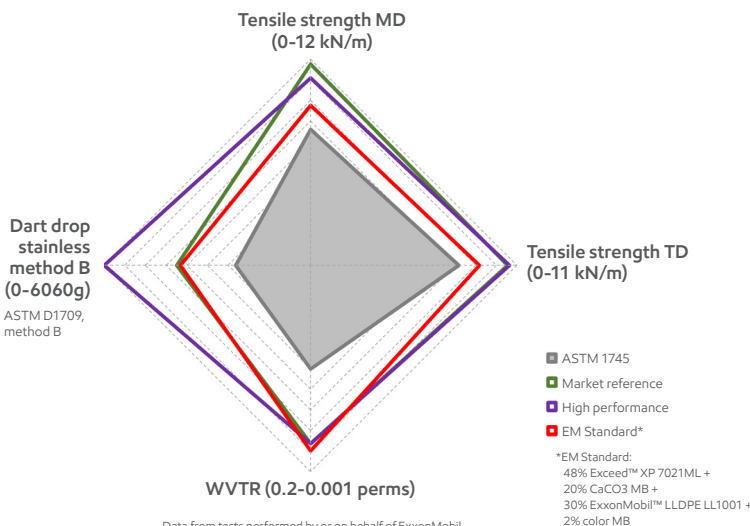
- Potentially higher extrusion output
- Options for thicker liners while retaining performance

Extreme dart impact resistance

- Surpasses water vapor retarders standard specification class-A
- Durability for extreme damage resistance
- Options to tailor cost-performance solutions with linear PE blends
- Options to tailor toughness via optimized formulations

Enhanced flexibility

- Efficient installation for builder



Exceed XP 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™ XP 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 µm films made with Exceed XP 7021, 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 new-to-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 XP, decreasing dependence on LDPE and enhancing toughness.

Cost optimization

The extreme toughness and bubble stability of Exceed XP 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/cm ³)	Melt flow ratio (I ₂₁ /I ₂)	Distinguishing features
Exceed XP 7021	0.20	0.911	41	<ul style="list-style-type: none">▪ High toughness▪ Exceptional melt strength▪ Enhanced flexibility

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



Why ExxonMobil PE? Why today?

tomorrow's
performance
today

What some might view as solutions that will only happen in the future, ExxonMobil PE is making possible today – through our innovative and reliable products, collaborative approach, technology leadership and support, and our unmatched global supply and resources. Learn more about how we're helping our customers create solutions with sustainability benefits. Why wait for tomorrow to advance your business today? Contact your ExxonMobil PE representative and begin experiencing tomorrow's performance today.

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