



tomorrow's  
performance  
today

ExxonMobil performance polyethylene

## Extreme performance flexitank films

Films based on ExxonMobil's Exceed™ XP performance polymers deliver flexitanks with exceptional integrity that can withstand the most demanding conditions for reduced damage and less product spoilage.

 Exceptional flex-crack resistance	 Excellent seal performance	 Film formulation simplification
 Extreme toughness and strength	 Broad operating window	

Delivered attributes	Derived benefits & potential value
<ul style="list-style-type: none"> <li>• Exceptional flex-crack resistance</li> <li>• Extreme toughness and strength</li> </ul>	<ul style="list-style-type: none"> <li>• High package integrity from reduced risk of pinholes</li> <li>• Minimized waste from production through to the customer</li> </ul>
<ul style="list-style-type: none"> <li>• Excellent seal performance</li> </ul>	<ul style="list-style-type: none"> <li>• Reduced risk of leakage</li> <li>• Increased cost effectiveness during transportation</li> </ul>
<ul style="list-style-type: none"> <li>• Film formulation simplification</li> </ul>	<ul style="list-style-type: none"> <li>• Simplify raw material sourcing and operations through lower inventory costs</li> <li>• Helps eliminate blending complexity and the risk of costly errors</li> </ul>

### High integrity liner

Exceed XP performance polymers allow converters to fabricate films with exceptional flex-crack resistance and toughness that deliver excellent flexitank integrity. Films made with these polymers absorb shock and mitigate the risk of flex-crack pinholes that are caused by the repeated movement of packaged goods during production, handling and transportation. Additionally, excellent sealing performance minimizes leakage and waste through to the customer.

### Innovation opportunities

Converters can use Exceed XP to develop new-to-the-world, cost-effective flexitank solutions. Due to extreme integrity, flexitanks based on Exceed XP can withstand the most demanding conditions for less liner damage and reduced product spoilage. Offering extreme dart impact, flex-crack resistance and tensile strength, film formulations can be tailored to meet the applications' needs. If even higher flex-crack resistance is required, a low dosage of Vistamaxx™ performance polymers can be added to the formulation.

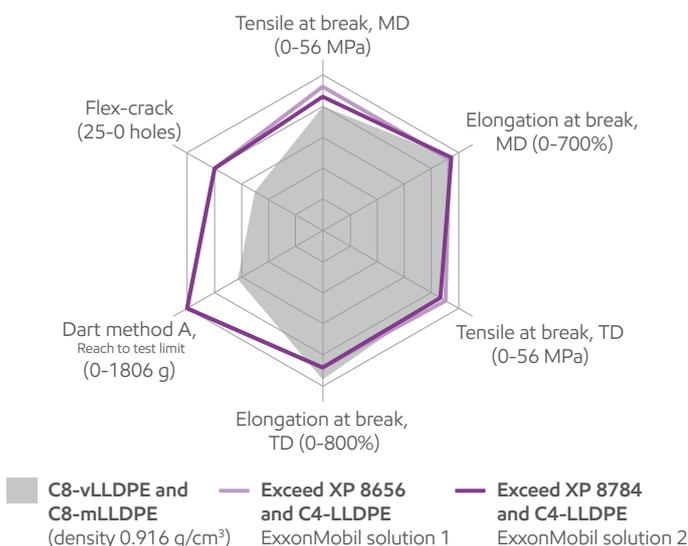
### Cost optimization

Exceed XP allows converters to leverage processability and optimize film formulations. These polymers offer a range of solutions for bubble stability and ease of extrusion to optimize solutions. The outstanding flex-crack resistance and toughness eliminates the need for high cost polymers and allows converters to tailor film solutions through linear polyethylene blends or downgauging.

## Liquid applications

Flexi-tanks predominantly used to transport bulk liquids, such as food grade liquids (wine and beverages), non-hazardous cargo, industrial goods (lubricants), and agricultural products (fertilizers), require flexitanks with higher mechanical performance.

### Film property data comparison for 125 µm Exceed™ XP performance polymers based solutions and market reference films



Data obtained from tests performed by or on behalf of ExxonMobil

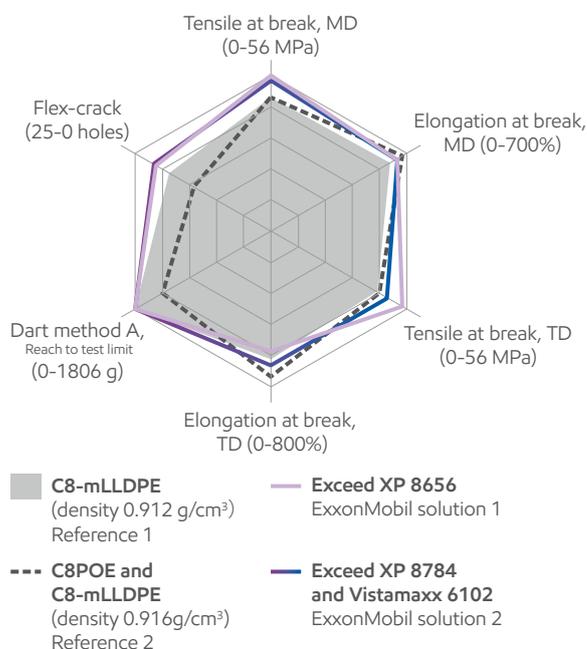
Grades	Melt index (g/10 min)	Density (g/cm <sup>3</sup> )
Exceed™ XP 8656	0.50	0.916
Exceed XP 8784	0.80	0.914
Exceed XP 6056	0.50	0.916
Exceed™ 1012	1.0	0.912
Exceed 1018	1.0	0.918
Exact™ 3236	2.0	0.908
Vistamaxx™ 6102	1.4	0.862

Exceed™ performance polymers  
Exact™ plastomers

## Extreme performance liquid packaging

Flexi-tanks for high-end liquid products require flexitanks offering mechanical properties with eXtreme Performance.

### Film property data comparison for 125 µm Exceed™ XP and Vistamaxx™ performance polymers based solutions and market reference films



Test	Test method
MI	ExxonMobil method
Density	ExxonMobil method
Tensile strength	ExxonMobil method
Dart impact	ExxonMobil method
Flex crack* (Labthink)	ExxonMobil method

\* Pinhole after 10,000 cycles



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