



ExxonMobil

Exceed™ XP performance PE polymers help Benepak reach a new benchmark for higher performance films

Energy lives here™



Challenge:

Cast stretch silage film with improved mechanical performance

Benepak (Cangzhou) Packaging Co., Ltd., a leading film converter and largest silage stretch film producer in China, wanted to increase its global exports. The company's strategy was to find a partner that could help improve the mechanical performance of its well-established cast stretch silage films, while introducing new differentiated blown silage films with extreme performance.

Solution:

Using Exceed™ performance PE polymers for a better toughness

ExxonMobil and Benepak collaborated to create new solutions that would meet the requirements for cast stretch silage films that offer better mechanical performance and the development of extreme performance blown silage films.

ExxonMobil recommended using **Exceed performance PE polymer** to increase the toughness of the existing cast stretch silage film. For the new blown silage film, ExxonMobil recommended using **Exceed™ XP performance PE polymers** – when eXtreme Performance matters – in a 5-layer structure.

Result:

Improved performance

Benepak adjusted the formulation for its cast stretch silage films by including **Exceed** which delivers outstanding toughness, impact strength, and puncture resistance. The toughness of the cast stretch silage film extends its in-use lifecycle, potentially saving costs for farmers.



Extended
in-use lifecycle



Cost saving
potential

Exceed XP performance polymers allowed Benepak to create a new benchmark for higher performance films that require extreme performance. These high-integrity silage films with high MD tear strength and toughness reduce the risk of waste and spoilage. The extreme performance of **Exceed XP** maintains silage film integrity, helping prevent damage in the field and during handling.



High MD
tear strength



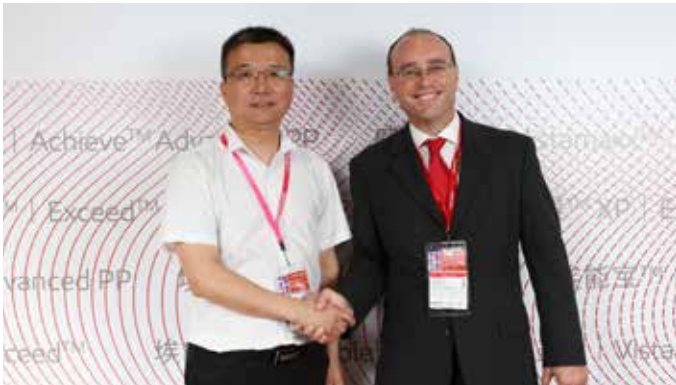
Reduced
risk of waste

The attributes and benefits of Exceed™ XP in blown silage films:

Delivered attributes	Derived benefits and potential value
<ul style="list-style-type: none">• Extreme toughness• Outstanding MD tear strength	<ul style="list-style-type: none">• Reduced risk of waste and spoilage• Enhanced durability of thin films, for which high MD tear is particularly important• Cost effective solutions with linear blends which are synergistic for MD tear
<ul style="list-style-type: none">• High melt strength	<ul style="list-style-type: none">• High output without the need for LDPE resin, which is detrimental to MD tear resistance/toughness

“ExxonMobil’s performance PE polymers deliver silage films with exactly the performance we were looking for, while we can rely on their supply security and ongoing technical support.”

Mr. He LiGang, General Manager, Benepak



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