



Exceed™ Tough+ Exceed™

Exceed[™] Tough+ performance PE polymers help Benepak reach a new benchmark for higher performance films









Data and results presented herein apply specifically to the noted application under this fact sheet. Your results may differ depending on factors such as operating conditions, equipment and materials used.

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™ Tough+ 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 Tough+ performance PE polymers in a 5 layer structure.

Results

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.

ExxonMobil Signature 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 Tough+maintains silage film integrity, helping prevent damage in the field and during handling.



The attributes and benefits of Exceed™ Tough+ in blown silage films

Delivered attributes

Derived benefits and potential value

- Extreme toughness
- Outstanding MD tear strength
- 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
- · High melt strength
- · High output without the need for LDPE resin, which is detrimental to MD tear resistance/toughness

"ExxonMobil Signature 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





EXonMobil 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, gamechanging collaboration that unlocks opportunities for our partners and advances and business goals.



© 2025 ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil is prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headeds, footers, disclaimers and other information. You may not copy this document to or reportoduce! In whole or in part or an exbisite. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information adia believed to be reliable on the date complete, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merich analysity, or completeness of this information or the product, materials or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or releving on any of the information in this document. This document is not an endors exercessly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or releving on any of the information any contrary implication. The terms "Excompt" "ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "Exercise" "ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "Exercise" "ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "Exercised in the product of t

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 New commercial name

Exceed™ XP Exceed™ Tough+

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