



Exceed™ XP

Exceed<sup>™</sup> Performance PE

# Recyclable\* cast barrier PE thermoformed packaging with good optics

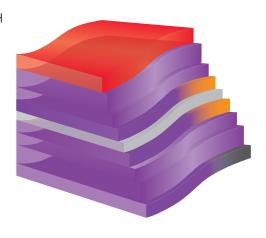


Data and results presented herein apply specifically to the noted application under this case study. Your results may differ depending on factors such as operating conditions, equipment and materials used.

# Challenge

To produce a recyclable\*, cast barrier, PE-rich thermoformed package delivering functionality and good optics.

- Exceed XP 8346
- Exceed 3812
- Tie
- EVAL" EVOH
- LD185BW



#### **Solution**

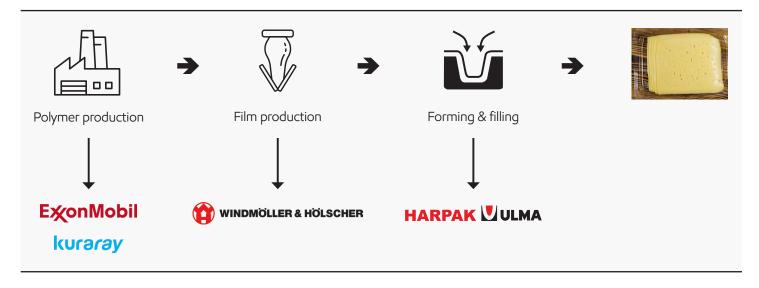
The value chain collaborated to create a thermoformed package, consisting of a formed recyclable cast PE-based top and bottom web with both high oxygen barrier and very good package integrity (puncture performance) along with optimized formability and excellent optics. The top and bottom webs were produced with ExxonMobil best-inclass resins like Exceed<sup>®</sup> XP and Exceed<sup>®</sup> performance PE. A new resin by Kuraray, EVAL<sup>®</sup> XEP 1393B EVOH, designed for thermoforming, provided the high oxygen barrier to the forming web.

The films were produced on an 11-layer FILMEX II barrier cast film line from Windmöller & Hölscher. ExxonMobil resins Exceed XP and Exceed performance polyethylene provide very good puncture performance and formability, while the Kuraray resin designed for thermoforming, offers high barrier properties. Harpak-ULMA Packaging validated the film's forming and sealing performance on their TFS-200 model thermoformer, producing sample packages for testing and market development.





### The process



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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. The composition of the products are unchanged, it is only the names that updated. We will be making these modifications over the next few months, through mid 2025, 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 will be changed in this document:

Legacy Commercial Name New Commercial Name

Exceed<sup>™</sup> XP 8346 Exceed<sup>™</sup> m 3516

Exceed<sup>™</sup> 3812 Exceed<sup>™</sup> Tough m 3812

Want to see what's changed in our portfolio? Go to exxonmobilchemical.com/sptransform