



Exceed™ Tough+

Exceed™ Stiff+

Exceed™ Flow+

Exxtra™ Seal

Recyclable* PE pouch packaging solution with ethylene vinyl alcohol for excellent barrier performance

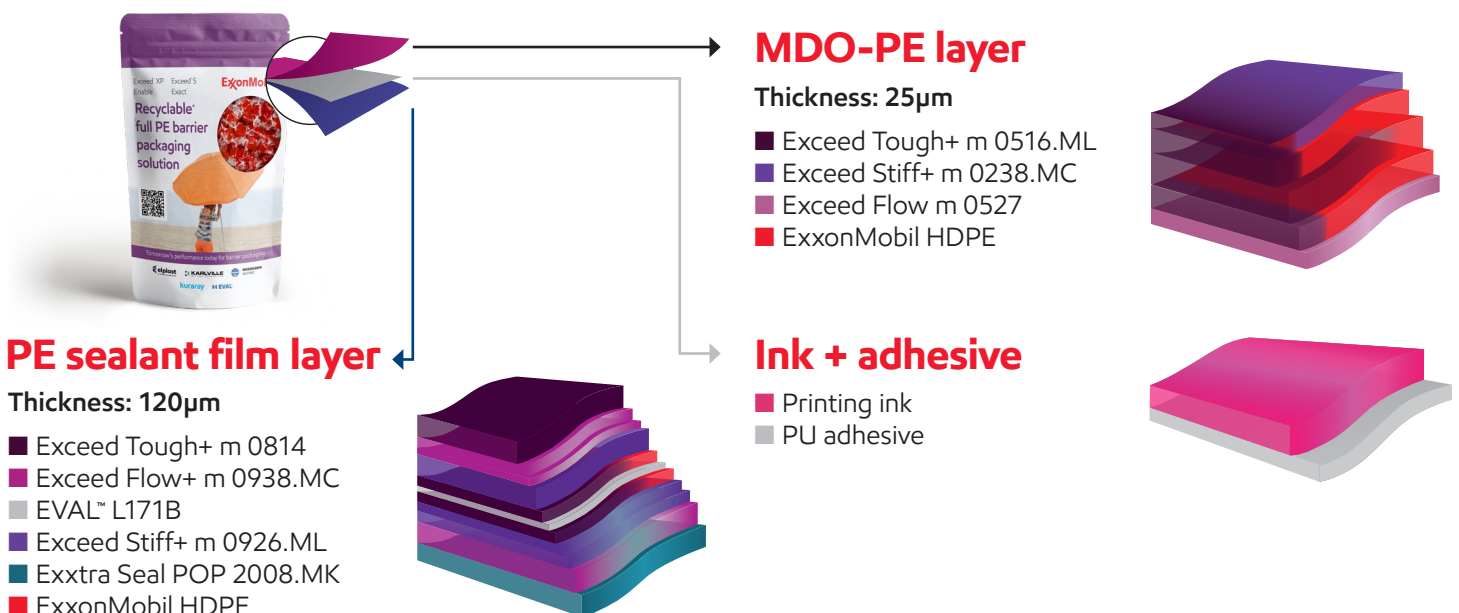
By collaborating with the value chain, ExxonMobil is helping customers create recyclable* packaging solutions.



*Recyclable in the few communities with programs and facilities in place that collect and recycle plastic film

Challenge

To produce a 92% PE, recyclable pouch with high oxygen barrier properties, outstanding packaging integrity & shelf-appeal (gloss / haze)



Solution

Through value chain collaboration and the latest performance resins, a 92% PE pouch was created with high oxygen barrier and outstanding package integrity.

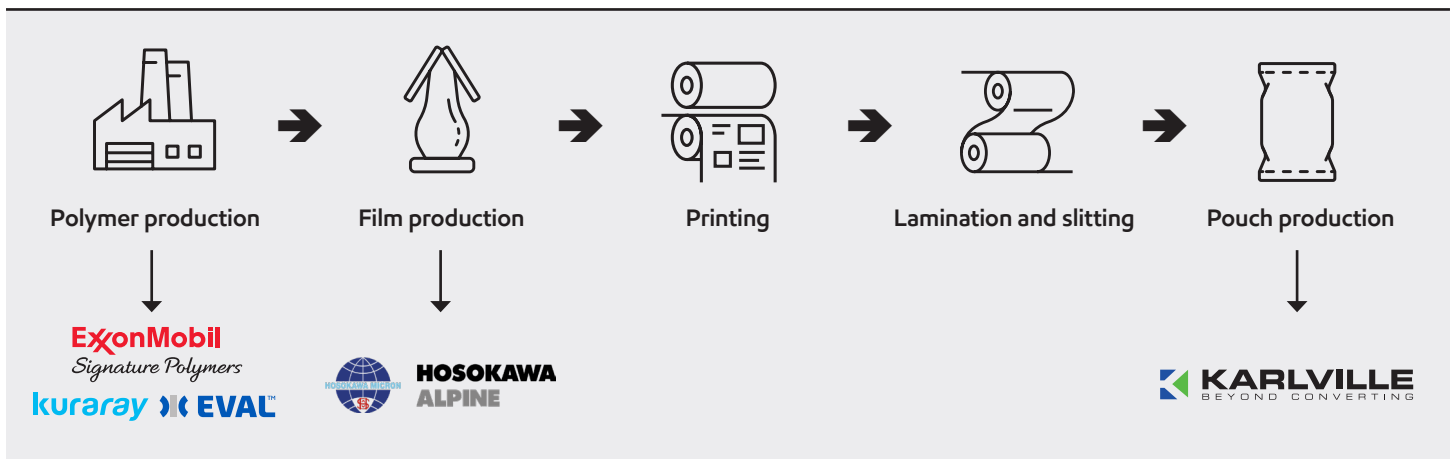
The Machine Direction Orientation polyethylene (MDO PE) blown film substrate was produced with ExxonMobil best-in-class performance PE resins and produced on an Alpine 5-layer line with inline MDO. This state-of-the-art MDO technology offers film quality with outstanding processability and optimized flatness.

The sealant web was produced with a special EVAL™ EVOH high barrier resin L171B and ExxonMobil best-in-class performance PE resins like Exceed Stiff+, Exceed Tough+ and Exxxtra Seal plastomer and produced on an Alpine 9-layer barrier line.

MDO PE and sealant web were then laminated to create a high oxygen barrier package with outstanding package integrity & shelf appeal.

Pouch

| Grade | Density (g/cm ³) | Melt index (g/10 min) | MDO film | Sealant film |
|-----------------------------|------------------------------|-----------------------|----------|--------------|
| Exceed Tough+ m 0516.ML | 0.916 | 0.5 | yes | no |
| Exceed Tough+ m 0814 series | 0.914 | 0.8 | no | yes |
| Exxxtra Seal POP 2008.MK | 0.908 | 2.0 | no | yes |
| Exceed Flow+ m 0938.MC | 0.938 | 0.9 | no | yes |
| Exceed Stiff+ m 0238.MC | 0.938 | 0.2 | yes | no |
| ExxonMobil HDPE | 0.961 | 0.7 | yes | no |
| Exceed Stiff+ m 0926.ML | 0.926 | 0.85 | no | yes |
| Exceed Flow m 0527.MC | 0.927 | 0.5 | yes | no |
| ExxonMobil LD 2022.BW | 0.923 | 2 | no | yes |
| EVAL™ L171B (27 mol%) | 1.21 | 4 | no | yes |



Contact us for more information: [exxonmobilchemical.com/pe](https://www.exxonmobilchemical.com/pe)

ExxonMobil
Signature Polymers

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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, 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 8656ML | Exceed™ Tough+ m 0516.ML |
| Enable™ 4002MC | Exceed™ Stiff+ m 0238.MC |
| Enable 2705 | Exceed™ Flow m 0527 |
| Exceed XP 8784ML | Exceed Tough+ m 0814 |
| Enable 4009MC | Exceed™ Flow+ m 0938.MC |
| Exceed™ S 9243ML | Exceed Stiff+ m 0926.ML |
| Exact™ 3237 | Exxtra™ Seal POP 2008.MK |
| Enable 2705MC | Exceed Flow m 0527.MC |
| ExxonMobil™ LDPE LD100BW | ExxonMobil LD 2022.BW |

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](https://www.exxonmobilchemical.com/sptransform)