# **E**‰onMobil



## Full PE laminated solutions for sustainable packaging

ExxonMobil's performance polyethylene (PE) including Exceed<sup>™</sup> XP, Exceed<sup>™</sup>, Enable<sup>™</sup> and Exact<sup>™</sup> allow the fabrication of full PE laminated films that are recyclable<sup>\*</sup>, with excellent packaging integrity, puncture energy and optics.



# Sealing/bag-drop performance

- Excellent packaging integrity
- Reduced waste



### Toughness

High damage resistance



## Optical properties

- Standout shelf appeal
- High brand visibility
- Easier bar code scanning



### Stiffness

- Printability for flexo and rotogravure
- Standability (for stand-up pouches)
- Downgauging



# Simplified material selection for laminate structure

Recyclable\*

\*Recyclable in communities that have programs and facilities in place that collect and recycle these items.

## How full PE laminated solutions deliver better results



SUP bag-drop non-breakage (0-100%)

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1 1 1 Bending stiffness average

(0-150 mN.mm)

MD modulus of substrate

(0-60 N/mm)

Haze of substrate — (25-0%)

Tensile strength, MD (0-100 N)

Dart impact

(0-2000 g)

Puncture energy

(0-12 mJ)

#### Non-MDO full PE laminated solutions

- Excellent bag-drop performance
- Exceptional dart impact and puncture energy
- Outstanding MD tensile strength
- Low sealing initiation temperature

\*Sealing initiation temperature based on the temperature at seal strength of 30N

\*Packaging performance depends on equipment and end-user requirements

\*Solutions only for non-barrier applications \*All data from tests performed by or on behalf of ExxonMobil

### Our portfolio of full PE laminated solutions

	Melt index (g/10 min)	Density (g/cm³)	MDO PE/PE		Non-MDO PE/PE	
			Substrate	Sealant	Substrate	Sealant
Exceed™ XP 8656ML	0.50	0.916	•			
Exceed™ XP 8784 Series	0.80	0.914		٠		•
Exceed™ 1012MK	1.0	0.912		•		•
Exceed™ 1327MA/MD	1.3	0.927			•	
Enable™ 4002MC	0.25	0.940	•			
Enable™ 4009MC	0.90	0.940			•	
ExxonMobil™ HDPE HTA 108	0.70	0.961	•	•	•	•

Sealing initiation temperature

(150-80°C)

### ExxonMobil performance PE polymers – for sustainable packaging solutions



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Contact us for more information: exxonmobilchemical.com/sup



ExxonMobil 3-layer non-MDO solution (PE<sub>35</sub>/PE<sub>110</sub>)

Reference 1 (BOPET<sub>12</sub>/PE'<sub>120</sub>)

Reference 2 (BOPA<sub>15</sub>/PE'<sub>120</sub>)