



tomorrow's  
performance  
today

ExxonMobil performance polyethylene

## Differentiated, sustainable collation shrink films solutions

Differentiated, sustainable collation shrink films solutions can be created with Exceed™ and Enable™ performance polyethylene in combination with 50% of recycled PE as well as in formulations allowing 25% downgauging. These packaging solutions help brand owners protect their products and deliver them securely by providing an outstanding combination of stiffness and toughness, with excellent optics and shrink performance.

Converters can optimize their film formulations to meet the specific needs of different collation shrink packaging applications using:

- 50% recycled PE combined with virgin performance PE that maintain packaging quality and integrity.
- Virgin performance PE to deliver extreme performance and 25% downgauging, creating an opportunity to do more with less by reducing the thickness of films.

### Applications:

Products requiring tight, secure and sustainable collation shrink packaging such as:

- Bottled beverages
- Canned goods
- Health or beauty products
- Cleaning products

### Key benefits:

Manufacturing collation shrink films with ExxonMobil performance PE and ExxonMobil™ LDPE offers opportunities for converters and brand owners to achieve:



Extreme toughness, puncture and dart impact resistance for high package integrity



Downgauging opportunities of 25% for unit cost & weight reduction and lower logistics costs



Optimal clarity and gloss for shelf appeal and brand visibility, even with 50% recycled PE



Stiffness and holding force for product stability and protection



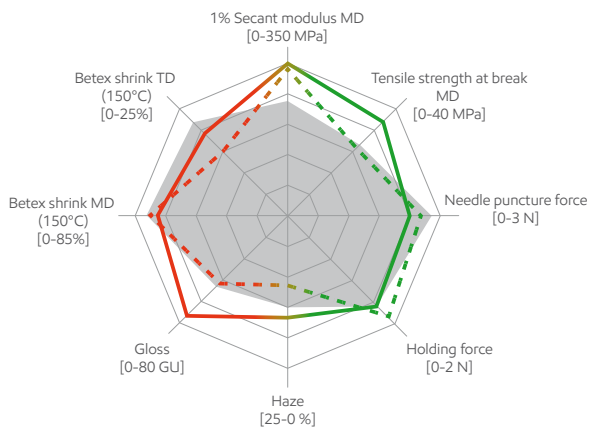
Comparable shrink performance with 50% recycled PE, including adjustable film shrink speed



Excellent reliability on high-speed packaging lines for increased output

# Sustainable collation shrink films solutions with Exceed™ and Enable™ performance PE

## Solutions with 50% recycled PE



### Fine-tuning the choice of virgin PE grades helps in obtaining the required properties

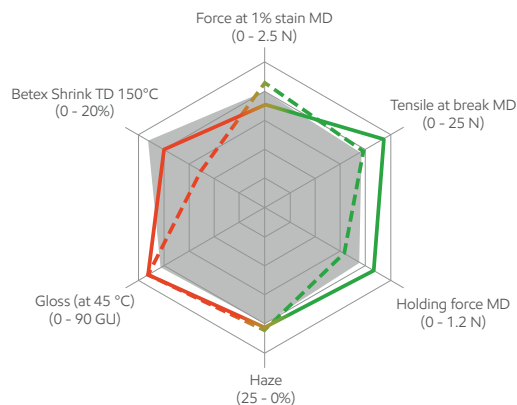
- **Exceed 1327 vs Exceed 1018 skins:** Due to its higher density, Exceed 1327 delivers stiffness to the film, which is important to increase holding force and improve handling and cuttability of the film in its operations at the bottling plant.
- **Enable 4002** brings both a high density for holding force and a low melt index for shrink performance.

### Solutions with 50% recycled PE

	Market reference 50 µm BUR 3.2	50% PIR 50 µm BUR 3.2	50% PCR 50 µm BUR 3.2
	3-layer film	3-layer film	3-layer film
Exceed 1018		●	
Exceed 1327			●
Enable 4002		●	●
ExxonMobil™ LDPE		●	
C4LL	●		
LDPE	●		
PIR*		●	
PCR**			●

(\*) PIR : post-industrial recycle (also called pre-consumer recycle) and (\*\*) PCR : post-consumer recycle

## Solutions allowing 25% downgauging



### Enable & Exceed performance polymers based downgauging solution:

- Tailored high gloss collation shrink solutions with downgauging opportunities for higher holding force, better mechanical properties, controlled shrink and high stiffness.

### Solutions allowing 25% downgauging

	Reference 40 µm	Solution 32 µm	Solution 30 µm
	3-layer film	3-layer film	3-layer film
Exceed 1018		●	
Exceed 1327			●
Enable 2703		●	
Enable 4002			●
ExxonMobil™ HDPE		●	●
ExxonMobil LDPE		●	●
C4LL	●		
LDPE	●		

Optimum collation shrink films solutions - Driving the future .

ExxonMobil performance polyethylene can help you differentiate your collation shrink films that are recyclable\*, and play a leading role in promoting more circular economy.

(\*) Packaging made from a single polymer structure is easier to recycle, in communities where programs and facilities to collect and recycle plastic films exist.



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