

Hygiene backsheet film performance polymers

Grade	Melt index (g/10 min)	Density (g/cm ³)	Blown film	Cast film	Features
Exceed™ XP performance polymers					
Exceed XP 8358	0.5	0.918	■		Superior toughness and sealing properties. High film integrity.
Exceed XP 8318	1.0	0.918	■	■	Superior toughness and sealing properties. High film integrity. Easy processing on blown film lines.
Exceed™ performance polymers					
Exceed 1018	1.0	0.918	■		Toughness and sealing properties. High film integrity.
Exceed 1327*	1.3	0.927	■		Toughness, sealing and optical properties. Stiffness and breathability. Robust operations on blown film lines.
Exceed 3518	3.5	0.918		■	Toughness properties. Robust operations on cast film lines.
Exceed 3527	3.5	0.927		■	Toughness and sealing properties. Stiffness and breathability. Robust operations on cast film lines.
Exceed 4518	4.5	0.918		■	Toughness and sealing properties. Easy processing on high-speed cast film lines.
Exceed 4536	4.5	0.936		■	Stiffness and toughness balance. Breathability. Easy processing on high-speed cast film lines.
Enable™ performance polymers					
Enable 2005	0.5	0.920	■		Easy processing on blown film lines with enhanced yield strength. Bubble stability. High film integrity.
Enable 2010	1.0	0.920	■	■	Easy processing on film lines with enhanced yield strength. Neck-in improvement in cast lines. High film integrity.
Enable 4009	0.9	0.940	■	■	Easy processing on blown film lines: bubble stability and extrudability. Stiffness and toughness balance.

* Grade not available in the Americas.



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Exceed™ XP Exceed™ Enable™



Energy lives here™



Hygiene and personal care backsheet films

Exceed™ XP, Exceed™ and Enable™ performance polymers can create thinner, breathable and non-breathable backsheet films while maintaining excellent mechanical properties for high-quality hygiene products such as diapers, training pants, feminine care and adult incontinence products. Significant cost savings are possible through improved cast and blown extrusion line speeds, higher throughput and downgauging key benefits.

	Toughness		Breathability		Downgauging potential
	Improved comfort		Easy film processing		

Thinner, high-integrity backsheet films

Exceed XP, Exceed and Enable performance polymers provide excellent toughness and tear-resistant properties allowing converters to fabricate thinner, high-integrity breathable and non-breathable backsheet films. High hydrostatic pressure resistance delivers liquid proof films to minimize leakage. For compounds, these polymers offer homogenous mixing with CaCO₃ for controlled pin-hole rate propagation and smooth processing.

New levels of softness and comfort

Hygiene products displaying new levels of stiffness, softness and comfort can be created using breathable and non-breathable

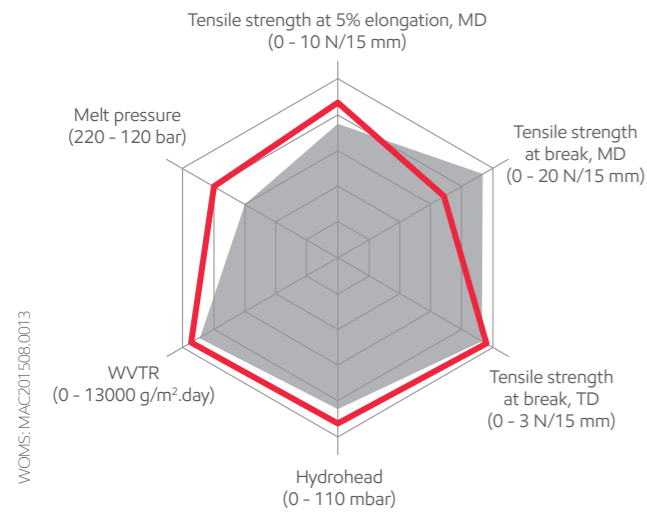
backsheet films made with Exceed XP, Exceed and Enable. Solutions with a high water vapor transfer rate (WVTR) are possible. Film stability enables registration printing for high-end aesthetics. Improved hot tack allows faster wicket wrapping for non-breathable backsheet films.

Cost optimization

Converters can optimize breathable or non-breathable backsheet film formulations to meet the performance/value needs of brand owners and end-users. Excellent extrudability and bubble stability deliver energy savings, faster line speeds and higher output, while downgauging can also contribute to cost savings.

Cast backsheet films

Exceed™ performance polymer formulated **breathable backsheet film** and reference film



Exceed-based solution offers:

- Excellent processability
- High quality end products

Potential value proposition:

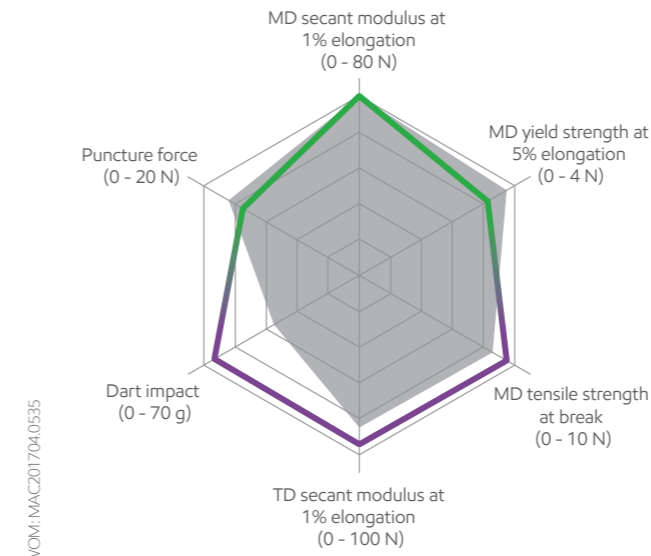
- Efficient production at high line speed
- Cost effectiveness via energy saving

Exceed formulated breathable backsheet film and the reference film

	Melt index (g/10 min)	Density (g/cm ³)	Exceed-based solution 30 gsm	Reference 30 gsm
Exceed 4536	4.5	0.936	●	
CaCO ₃	-	-	●	●
LDPE	7.0	0.918	●	●
C ₈ -LLDPE	2.5	0.936		●

Test method based on: Tensile strength - ASTM D882; Hydrohead - WSP 80.6; WVTR - WSP 070.4R3

Exceed™ XP and Enable™ formulated **non-breathable backsheet film** and reference film



Exceed XP and Enable based solution offers:

- Excellent film performance
- Robust machinability
- Enhanced TD properties

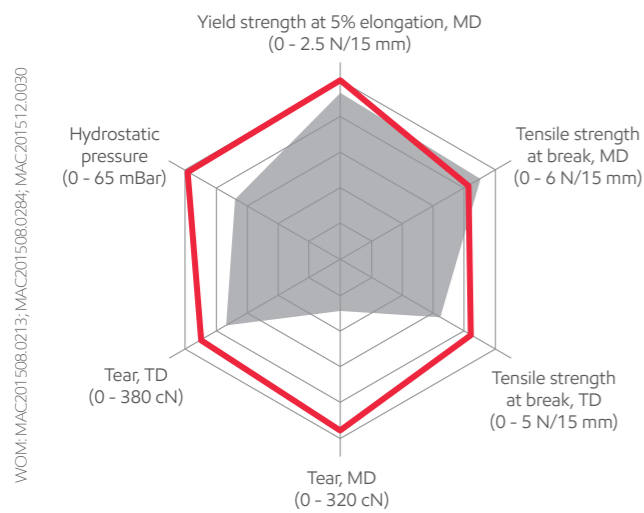
Potential value proposition:

- Cost effectiveness via downgauging
- Performance enhancement: better toughness & TD property

Exceed XP and Enable formulated blown non-breathable films and reference film

	Exceed XP and Enable D/G - 16 gsm	Reference 18 gsm
Skin	Exceed XP 8358 Exceed 1327	C8 LLDPE LDPE
Core	Enable 4009 CaCO ₃ masterbatch white masterbatch	C8 LLDPE LDPE CaCO ₃ masterbatch white masterbatch

Exceed formulated **non-breathable backsheet film** and reference film



Exceed-based solution offers:

- Improved film integrity
- Enhanced hydrostatic pressure

Potential value proposition:

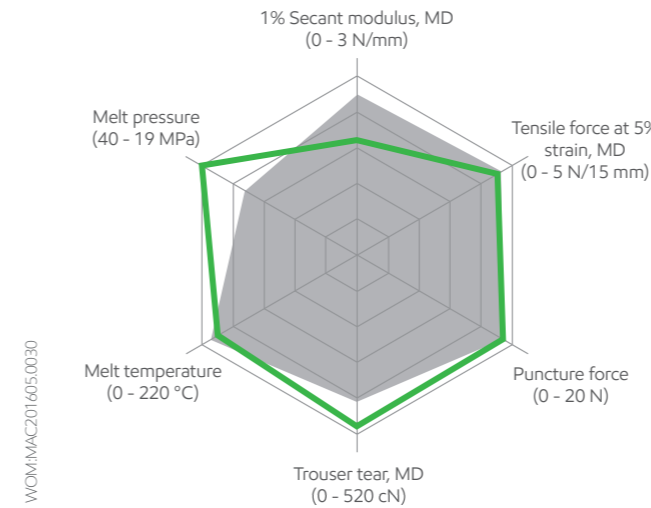
- Leakage reduction
- Cost advantage via downgauging

Exceed formulated non-breathable backsheet film and reference film

	Melt index (g/10 min)	Density (g/cm ³)	Exceed-based 3-layer 16 gsm film embossed	Reference market sample 18 gsm film embossed
Exceed 3527	3.5	0.927	●	
HDPE	-	-	●	
LDPE	-	-	●	
Pigment	-	-	●	

Test method based on: Tensile strength - ASTM D882; Tear - ExxonMobil method; Hydrostatic pressure - WSP 80.6

Enable formulated **non-breathable backsheet film** and reference film



Enable-based solution offers:

- Excellent film integrity
- Robust machinability

Potential value proposition:

- Formulation simplification
- Cost effectiveness via output increase and energy saving

Enable formulated non-breathable backsheet film and reference film

	Melt index (g/10 min)	Density (g/cm ³)	Enable 4009 3-layer 14 gsm film	Reference market sample 14 gsm film
Enable 4009	0.90	0.940	●	
HTA108	-	-	●	●
Pigment	-	-	●	●
LD 150BW	-	-		●
C ₈ -LLDPE	1.0	0.940		●

Test method based on: Tensile strength - ASTM D882; Puncture - ASTM D5748; Trouser tear - ASTM D1938

