



Exceed™ Tough+ Exceed™ Stiff+

Low density Exceed™ Tough+ performance polyethylene extends the extreme performance of collation shrink films

Exceed Tough+ grades extend the extreme performance of collation shrink films by delivering remarkable mechanical properties with a combination of low density and fractional melt index (MI).



Excellent toughness



Lower shrink temperature



Outstanding optical properties



Package integrity

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

Exceed Tough+ m 0211 and Exceed Tough+ m 0512 performance polyethylene offer the value chain a combination of attributes — including excellent toughness and puncture resistance, outstanding optical properties, and high shrink speeds at low temperatures — currently unavailable in a single resin.

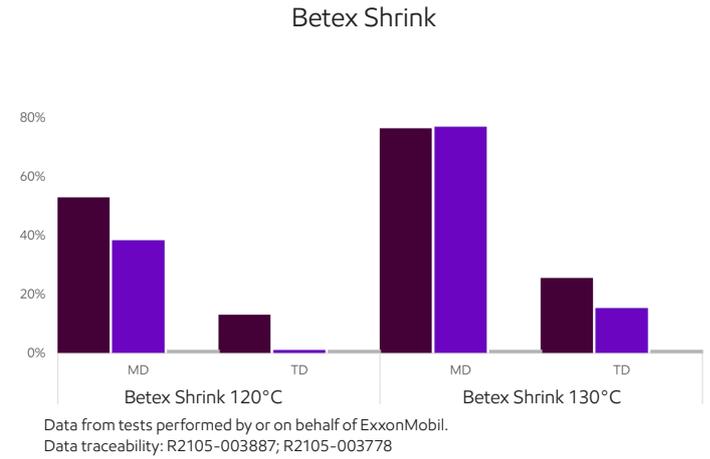
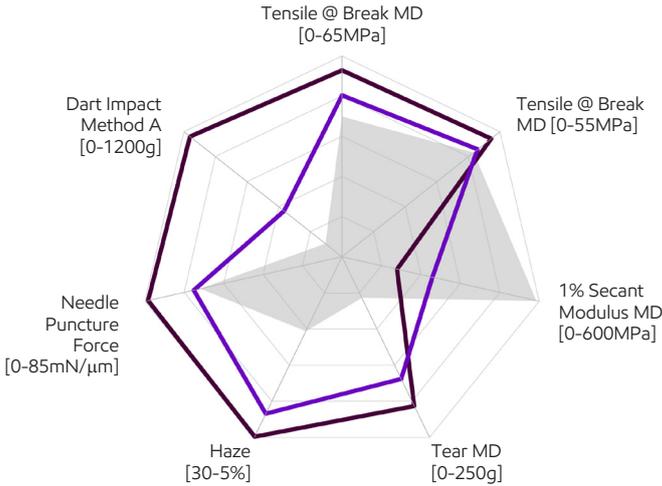
Beneficial attributes

- High shrink speeds and snug-fit at low temperatures(120°C)
- Outstanding optics with improved bulls-eye appearance
- Excellent toughness and puncture resistance

Value

- Package integrity with tamper resistance
- Energy cost savings during the shrink process
- Protection of thermo-sensitive products
- No sealing or stickiness to primary packaging, e.g. PE-based bottles/bags, labels, POF overwrap
- Cardboard removal

3-layer 50 micron collation shrink film solutions based on Exceed™ Tough+ m 0211, Exceed™ Tough+ m 0512 and Exceed™ Stiff+ m 0238 performance polyethylene offer significant benefits compared to a 50 micron market reference alternative, as can be seen in the charts below.



Data from tests performed by or on behalf of ExxonMobil.
Data traceability: R2105-003887; R2105-003778

	Market reference: 50µm	ExxonMobil low-temperature shrink solution 1: 50µm	ExxonMobil low-temperature shrink solution 2: 50µm
Ratio	1 / 3 / 1	1 / 2 / 1	1 / 2 / 1
A/C	MDPE* ExxonMobil™ LD 03322	Exceed Tough+ m 0512	Exceed Tough+ m 0512 Exceed Stiff+ m 0238
B	MDPE* ExxonMobil LD 03322 ExxonMobil™ HD 6207FL	Exceed Tough+ m 0211 ExxonMobil LD 03322	Exceed Tough+ m 0211 Exceed Stiff+ m 0238 ExxonMobil LD 03322

*MDPE: 0.2 g/10min MI; 0.940 g/cm³ density

Extend the extreme performance and processability of your collation shrink films using Exceed Tough+ performance polyethylene.

Grade	Melt index (g/10 min)	Density (g/cm ³)	Slip / anti-block
Exceed Tough + m 0211	0.20	0.911	No
Exceed Tough + m 0512	0.50	0.912	No

Test item	Test method
MI (Melt Index)	Test method based on ASTM D-1238
Density	Test method based on ASTM D-4703 and ASTM D-1505/ISO 1183
Tensile at Break	Test method based on ASTM D-882
1% Secant Modulus	Test method based on ASTM D-882
Elmendorf Tear	Test method based on ASTM D-1922
Dart Impact	Test method based on ExxonMobil method
Needle Puncture	Test method based on CEN 14471 (probe diameter = 0.8 mm)
Total Haze	Test method based on D-1003
Betex Shrink	Test method based on ExxonMobil method



ExxonMobil Signature Polymers was born from the belief that people fuel progress. From automotive and construction to packaging, agriculture, industrial, and beyond, we leverage the scale and reach of ExxonMobil to deliver the insights and innovations that empower our diverse, global partners to take their businesses to new heights. We continuously work to provide the listen-first, service-driven, game-changing collaboration that unlocks opportunities for our partners and advances and their business goals.



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