



Performance polyethylene Product finder

Explore our industry leading Exceed™ S, Exceed™ XP, Exceed™, Enable™ and Exact™ performance polyethylene (PE) resins, which have been designed for a broad range of applications.

■ Exceed S PE resins for so much, so simply

Exceed S resins enable converters to rethink film design for simpler solutions. These resins deliver industry leading combinations of stiffness and toughness, while being easy to process. Exceed S polyethylene resins provide opportunities to reduce the complexity of film formulations and designs, while improving film performance, conversion efficiency, and packaging durability. Ideally suited for flexible films used in food, industrial and agricultural applications, converters benefit from:

- High performance with easy processing
- Stiffness and toughness with less blending
- Resin solutions that simplify operations and improve film and package durability
- Low melt pressure and high output on most blown film lines

■ Exceed XP PE resins for extreme performance

Exceed XP PE resins offer mechanical properties that allow converters to manufacture extremely damage-resistant films for highly demanding applications. Film formulations can be designed to provide extreme performance, while helping to manage costs through to the end-user.

- Extreme flex-crack and dart impact resistance
- Exceptional aged property retention
- Outstanding machine direction (MD) tear strength
- · Enhanced flexibility and sealability

Exceed PE resins for sealability and optical performance

Exceed PE resins enable converters to manufacture films with a combination of outstanding sealing and best-in-class optical properties like high gloss and transparency. Due to the toughness and impact resistance delivered by Exceed PE resins, thinner films are possible, helping to reduce working capital requirements due to material savings and reduced inventory levels.

- Sealing performance and gloss and transparency
- · Toughness, strength and impact resistance

■ Enable PE resins for easy processability

Enable PE resins deliver optimized performance by combining excellent processability and bubble stability with HAO properties in a single resin for more stable operations and better line output.

- Excellent processability and operational stability
- Higher output and downgauging potential

Exact plastomer resins to boost toughness, clarity and sealing performance in flexible packaging

Exact plastomer resins are designed to provide key performance properties in both monolayer and multilayer blown film applications, such as food packaging, laminated films and multilayer packaging film. Produced using ExxonMobil's proprietary metallocene technology, these high-performance plastomers can be blended with polyolefins to enhance heat-sealing performance and toughness in film applications.



Produ finder	ıct	Meltinge	Density.	$^{\gamma}$ (g /c m^3) Melt g	Peak C	rielting temperature (°F)	Tensile	Elongats:	Elongas:	Secant mod	Secant mod.	Dart drop im.	$E_{Imendorf_{\star}}$	Elmendorftes	Puncture for	Puncture enc	Flexible foods	Liquid packaging	raedium and heavy duty sacks	Ovenwap packs	Soft-shrink packaging	stretch pact	Stretch hood s	Other films & lin	Agricultural films	Jeomemb _{ranes} , aqua/thick lines.	Molding & C.	Wire and cables	guige/packeguing
							F	Properties												1	Applications								Features
Exceed™S	Exceed S 9243ML*	0.85	0.926	27-30	257	11000	8000	460	690	42000	53000	480	210	540	11	28													Extend the limits of stiffness and toughness balance, excellent film processing
performance	Exceed S 9272ML*	0.80	0.920	28-31	256	10000	8000	430	660	32000	40000	670	210	510	11	31													Extend the limits of toughness and stiffness balance, exceptionally high toughness, excellent film processing
polyethylene	Exceed S 9333ML*	2.0	0.925	28-31	255	9200	7300		690	38000	48000	460	210	480	9	24													High stiffness & toughness, exceptionally easy extrusion at low melt pressure
							F	Properties													Applications								Features
Exceed™ XP	Exceed XP 6026*		0.916	48-52	230	9400	9700	390	640	26000	32000	680	60	400	15	43													Melt strength, puncture and impact resistance, toughness
performance polyethylene	Exceed XP 6056*		0.916	36-38	228	8500	8600	390	710	24000	29000	510	80	460	13	39													Extrudability on typical LDPE equipment, toughness, seal strength.
polyethylene	Exceed XP 7021ML*	0.20	0.911	-	-	11000	10000	360	600	17000	23000	1100	40	210	15	45		•					•						Bubble stability, mechanical performance, sealing performance, optical properties
	Exceed XP 7052ML*	0.50	0.912	-	-	9700	9700	410	630	16000	19000	900	80	270	14	46	•	•					•						Bubble stability, mechanical performance, sealing performance, optical properties
	Exceed XP 8318*	1.0	0.918	28-30	250	9300	7500	370	660	28000	33000	670	370	470	10	29	•	•						•					Stiffness, impact resistance, extrudability and higher heat resistance.
	Exceed XP 8346		0.916	-	-	/000	5500	500	680	18000	18000	290	280	350	8	34	•					•				•			Processability, puncture, toughness
	Exceed XP 8358*	0.50	0.918	28-30	250	10000	7900	300	640	29000	36000	710	530	500	12	33													Stiffness, impact resistance
	Exceed XP 8656*			28-30		10000			640	27000	33000	750	500	540	12	30								•					Flex-crack, dart resistance, bubble stability
	Exceed XP 8784*	0.80	0.914	28-32	250	9200			620	24000	31000	910	310	460	12	3/	•	•											Easy extrusion, bubble stability, step-out mechanical performance, excellent sealing performance
7	F 14042*	1.0	0.013		220	0200		Properties	(00	17000	10000	000	200	210	12	47				,	Applications								Features
Exceed [™] performance	Exceed 1012*		0.912	-	238	8300	8000	450	600	17000	18000	900	200	310	13	47								•			•		Low temperature toughness, sealing, impact and puncture resistance
polyethylene	Exceed 1015* Exceed 1018*		0.915	-	242	9300	7700	470	620	21000	20000	740 F00	250	420	12	40 2E				_		_	_	_	_	_	_		Low temperature toughness, impact strength and puncture, heat sealing and hot tack performance
	Exceed 1018*	1.0	0.918	-	245	7200	7700 E000	40U E10	640	27000	25000	200	250	430 E10	10	10				•		•	•	•	•	•	•		Tensile, impact strength, puncture Tensile, impact strength, puncture and excellent drawability
	Exceed 1327*	1.0	0.923	-	253	8300	7200	400	700	33000	53000	140	140	210	10	17		: :			_					_	_		
	Exceed 1518*	1.5	0.727	-	233	9400	7000	540	700 660	45000	28000	410	300	430	12	20				•						•			Tensile, stiffness, impact strenght, puncture, drawability Tensile, impact strength and puncture and excellent drawability
	Exceed 2018*	2.0	0.918	_	243	8600	8000	500	690	24000	27000	590	330	450	11	27													Extrudability, tensile, impact strength, puncture
	Exceed 2718		0.718			11000		470	720			200	170	420	11	37	-								-				Tensile, impact resistance, puncture toughness, for cast film
	Exceed 3518		0.718	_	237	11000	6800	470 510	680	16000	18000	1/10	190	500	11	38											-		Tensile, impact resistance, puncture toughness, for cast film
	Exceed 3510		0.713	-	250	8900	5900	530	750	27000	30000	60	70	400	10	23	-									- :			Stiffness, tensile, impact and puncture resistance
	Exceed 3812		0.912	_	230	6900	6300		610	13000	14000	610	250	440	-	-				_									Sealing, caulkability, toughness, impact and puncture resistance, for cast film
	Exceed 4518		0.918	_			7000		730	15000		140	150	460	11	39													Tensile, impact resistance, puncture toughness, for cast film
	Exceed 4536		0.936	_			4800		720	54000		<60	30	110	6														Processability, stiffness, toughness, mechanical performance, hot-tack, for cast film
	Exceed 0015		0.918	_	235		_					-	-	_															Organoleptics, toughness, for extrusion coating and injection molding
	Exceed 0019 ^A						-	-	-	-	-	-	-	-	-	-													Organoleptics, toughness, for extrusion coating and injection molding
								Properties													Applications								Features
Enable™	Enable 2005*	0.50	0.920	_	239	8800				30000	29000	240	90	510	12	33					• •	-							Processablility, toughness, cast film available
performance	Enable 2010*		0.920	-			7500		720			180	130	550	11	28													Processability, toughness, cast film grade available
polyethylene	Enable 2305*		0.923	-	241	8400	7600		730	35000		170	70	620	12	29													Processability, toughness, antiblock options available
	Enable 2703*		0.927	-	246	9100	7500		750	45000	55000	140	40	670	11	25													Stiffness, toughness, processability
	Enable 2705*	0.50	0.927	-	246	8300	7200	520	760	44000	52000	130	50	730	11	24													Processability, stiffness and toughness
	Enable 3505*	0.50	0.935	-	253	8400	6700	550	790	62000	75000	70	20	610	11	20													Processability, stiffness and toughness, shrink
	Enable 4002*	0.25	0.938	-	262	9700	7000	490	810	78000	110000	60	10	600	11	19													Bubble stability, melt strength, stiffness, shrink
	Enable 4009*	0.90	0.938	-	259	8100	6300	600	830	74000	86000	< 60	20	550	8	8.7													Extrudability, stiffness and toughness
	Enable 9365*	0.50	0.935	-	255	-	-	-	-	-	-	-	-	-	-	-													Outstanding balance between extrusion processing and properties, including hydrostatic strength
								Properties													Applications								Features
							<u> </u>	Properties													- F F								
] Exact™	Exact 3236*	2.0	0.908	-	237	8600				13000	13000	800	210	280	13	56											-		Low seal initiation temperature and high toughness

Film properties are represented according to additive used and may vary according to additive package requirements. Products may not be available in one or more countries — please contact your Sales Representative for more information. See product data sheets for additional typical properties. Typical properties are not to be construed as specifications. All film conditions and test methods are specified in the product data sheets. Formulations and conditions will change depending on your application and formulation. Film gauge: 1 mil film for blown grades, 0.8 mil for cast grades.

A: Exceed 0019 product properties data available at **exxonmobilchemical.com**B: Dart drop impact is based on ASTM D1709A, which may vary by country.

^{*} Please contact your ExxonMobil representative for availability of products containing alternative polymer processing aid (PPA) PE

Performance polyethylene

Exceed[™] S PE resins for so much, so simply

When your applications are so demanding a compromise between stiffness and toughness cannot be accepted, and easy processability is essential, Exceed S PE resins are the solution that elevates performance, while simplifying operations.

Exceed™ XP PE resins for extreme performance

If your applications are highly demanding, Exceed XP PE resins offer the mechanical properties needed to truly deliver extreme performance.

Exceed™ PE resins for sealability and optical performance

For your applications that need a combination of outstanding sealing and best-in-class optical properties, Exceed PE resins are the answer.

Enable™ PE resins for easy processability

When you are looking for more stable operations and better line output, Enable PE resins deliver excellent processability and bubble stability with HAO properties in a single resin.

Exact™ plastomer resins

Enhance heat-sealing performance and toughness in film application.

Alternative PPA PE

ExxonMobil has developed performance PE products with an alternative nonfluoropolymer polymer processing aid (PPA). Please contact your ExxonMobil representative for availability.

Specialty copolymers

Escorene[™] Ultra EVA ExxonMobil[™] EVA

For agricultural, photovoltaic cell encapsulation and packaging. Enhances sealing performance in packaging.

Escor™ EAA

For powerful adhesion to metal and metal substrates.

ExxonMobil™ EnBA

For adhesion to polar substrates, without the need for primers.

Optema[™] EMA

For softness, thermal stability and chemical adhesion.

LLDPE, LDPE, HDPE resins

LLDPE resins

If your applications need an optimal balance of toughness and stiffness, specify ExxonMobil™ and ExxonMobil™ NTX linear low-density polyethylene (LLDPE) resins.

LDPE resins

For your applications that require a combination of high melt strength, excellent optical properties, and outstanding shrink performance, turn to ExxonMobil™ low-density polyethylene (LDPE) resins.

HDPE resins

When your applications need a balanced combination of processability, toughness and stiffness, our highdensity polyethylene (HDPE) resins are the solution.

HDPE resin for MDO films

ExxonMobil has developed a novel high density polyethylene (HDPE) grade, ExxonMobil™ HD7165L, for Machine Direction Oriented (MDO) PE film applications. Designed for recyclability*, HD7165L can help converters create mono-material laminates to replace multi-material laminate structures which can be difficult to mechanically recycle. Offering excellent optical properties and outstanding mechanical properties, ExxonMobil™ HD7165L is well suited to help enable mono-material laminated packaging.

Paxon™ HDPE resins

If your rigid applications need a stepchange in ESCR (Environmental Stress Cracking Resistance) performance without compromising stiffness, impact, top load, or processability, Paxon HDPE resins are a perfect choice.

^{*} Recyclable in communities with programs and facilities in place to collect and recycle plastic film Product brands may not be available in all regions.

Test	Based on test method
Density	ExxonMobil method
Melt index (190°C/2.16 kg)	ExxonMobil method
Melt flow rate (MFR)	ExxonMobil method
Peak melting temperature	ExxonMobil method
Tensile strength	ExxonMobil method
Elongation at break	ExxonMobil method
Secant modulus	ExxonMobil method
Dart drop impact	ExxonMobil method
Elmendorf tear strength	ExxonMobil method
Puncture force	ExxonMobil method
Puncture energy	ExxonMobil method
Puncture at 250% stretch,	
(on highlight tester, for rel. comparaison only)	ExxonMobil method
Cling force	ExxonMobil method
Unwinding noise	ExxonMobil method

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