EXCEED[™] mLLDPE



EXCEED 1018 Series

Blown Film Resins

Description

Exceed 1018 Series grades are ethylene based polymers produced with metallocene single site catalysts using ExxonMobil's proprietary Exxpol technology.

Films made of Exceed 1018 Series grades have outstanding tensile, impact, puncture resistance, and low temperature properties. Exceed 1018 EB and Exceed 1018 FA contain slipagent and antiblock, which makes them suitable for formulations which require good openability and a low friction coefficient. They are ready-to-use versatile polymers for demanding mono layer and multi layer blown film applications.

Applications

- film for frozen foods
- high speed Form Fill Seal packaging
- overwrap films, e.g., for tissue
- thin gauge industrial and consumer films
- bag in box film
- trash bags
- liners

Additive Package		PPA	Antiblock	Slip	Thermal Stabilizer
Exceed 1018EB		Yes	2500 ppm	750 ppm	Yes
Exceed 1018FA		Yes	4500 ppm	450 ppm	Yes
Resin Properties		Test Based On		Typical Value / Unit	
Melt Index		AS	STM D1238	1.0 g/10 min	
Density		ASTM D4703 / D1505		0.918 g/cm ³	
Peak Melting Temperature		ASTM D3418		118 °C	244 °F
Film Properties					
Tensile Strength	MD	А	STM D882	50 MPa	7500 psi
	TD			35 MPa	5100 psi
Elongation @ Break	MD	А	STM D882	440 %	
TD				510 %	
1% Secant Modulus	MD	А	STM D882	180 MPa	26000 psi
	TD			180 MPa	26000 psi
Haze		ASTM D1003		4 %	
Gloss, 60° angle		AS	STM D2457	13 %	
Dart Drop Impact, A/Face		AS	STM D1709	30 g/µm	762 g/mil
Elmendorf Tear Strength	MD	AS	STM D1922	9 g/µm	228 g/mil
	TD			15 g/μm	381 g/mil
Puncture Resistance		Exxo	nMobil Method	3 N/µm	16 lb/mil

Film properties have been measured on a 25 μ m (0.98 mil) thick film made of Exceed 1018EB (BUR = 2.5 and a melt temperature of 210 °C, 410 °F). Optical film properties have been measured on 25 μ m (0.98 mil) thick film made of Exceed 1018EB with addition of 10 % LDPE at the same conditions.

Exceed 1018EB and Exceed 1018FA can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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