



Tuesday, March 27, 2007

Exceed™ 1018EA**ExxonMobil Chemical Company - Polyethylene, Linear Low Density**Unit System: **Actions****Legend** ([Open](#))**General Information****Product Description**

Exceed 1018 resins are hexene copolymer produced using ExxonMobil Chemical's EXXPOL® Technology.

Films made from Exceed 1018 resin have outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, allow downgauging in bag application.

General

Material Status	● Commercial: Active
Availability	● North America
Test Standards Available	● ASTM
Additive	● Aid, Processing ● Heat Stabilizer ● Antiblock, 0.50 % ● Slip, 0.10 %
Features	● Antiblocking ● Impact Resistance, Good ● Food Contact Acceptable ● Puncture Resistance, Good ● Heat Stabilized ● Slip
Uses	● Bags ● Liners ● Film ● Packaging
Agency Ratings	● EU Food Contact, Unspecified Rating ● FDA Food Contact, Unspecified Rating
Forms	● Pellets
Processing Method	● Film, Blown

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	0.984	mil	
Secant Modulus MD (Blown Film) ²	1% Secant: 25400	psi	ASTM D882
Secant Modulus TD (Blown Film) ²	1% Secant: 26300	psi	ASTM D882
Tensile Strength @ Yld MD (Blown Film) ²	1310	psi	ASTM D882
Tensile Strength @ Yld TD (Blown Film) ²	1230	psi	ASTM D882
Tensile Strength @ Brk MD (Blown Film) ²	6690	psi	ASTM D882
Tensile Strength @ Brk TD (Blown Film) ²	4660	psi	ASTM D882
Elongation @ Break MD (Blown Film) ²	470	%	ASTM D882
Elongation @ Break TD (Blown Film) ²	550	%	ASTM D882
Dart Drop Impact (Blown Film) ³	580	gm	ASTM D1709
Elmendorf Tear Str MD (Blown Film) ²	270	gm	ASTM D1922
Elmendorf Tear Str TD (Blown Film) ²	440	gm	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Point	246	°F	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 0.984 mil, Blown Film)	42		ASTM D2457

Haze (0.984 mil, Blown Film)	16 %	ASTM D1003
Additional Properties		
Film Made from Exceed 1018 EA on a 2.5 inch blown film line equipped with a 2.5:1 blow-up ratio, 60 mil die gap, 411°F (211°C) melt temperature, 24 inch frostline and 10 lb/die inch/hr. The value listed as Density, ASTM D1505, was tested in accordance with EMC test methods. Puncture Energy, 25µm Blown Film: 1.8 J		
Notes		
Typical properties: these are not to be construed as specifications.		
Ø.984 mil		
Method A, 0.984 mil		

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