



Tuesday, March 27, 2007

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

Exceed 1018LE is an ethylene hexene copolymer produced using ExxonMobil's EXXPOL® technology.

As well as the outstanding tensile, impact and puncture resistance properties of other Exceed grades, Exceed 1018LE is specially chosen to give low gel levels and is thus particularly suitable for sensitive applications

General

Material Status	● Commercial: Active
Availability	● North America
Test Standards Available	● ASTM
Additive	● Aid, Processing ● Heat Stabilizer ● Antiblock, 0.25 % ● Slip, 0.075 %
Features	● Antiblocking ● Heat Stabilized ● Comonomer, Hexene ● Impact Resistance, Good ● Copolymer ● Puncture Resistance, Good ● Food Contact Acceptable ● Slip ● Gel, Low
Uses	● Film ● Laminates
Agency Ratings	● EU Food Contact, Unspecified Rating ● FDA Food Contact, Unspecified Rating
Forms	● Pellets
Processing Method	● Coextrusion ● 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: 26100	psi	ASTM D882
Secant Modulus TD (Blown Film) ²	1% Secant: 26100	psi	ASTM D882
Tensile Strength @ Brk MD (Blown Film) ²	7250	psi	ASTM D882
Tensile Strength @ Brk TD (Blown Film) ²	5080	psi	ASTM D882
Dart Drop Impact (Blown Film) ³	750	gm	ASTM D1709
Elmendorf Tear Str MD (Blown Film) ²	230	gm	ASTM D1922
Elmendorf Tear Str TD (Blown Film) ²	380	gm	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Point	244	°F	
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 0.984 mil, Blown Film)	13		ASTM D2457
Haze (0.984 mil, Blown Film)	4.0	%	ASTM D1003

Additional Properties

Film properties have been measured on an additivated Exceed 1018-type grade at 25 µm (0.984 mil) thick film (BUR = 2.5 and temperature setting of 210°C, 410°F). Optical film properties have been measured on 25 µm (0.984 mil) thick film with addition of 10 % LDPE at same conditions. The value listed as Density, ASTM D1505, was tested in accordance with EMC test methods.
Puncture Force, 25µm Blown Film: 75 N

Notes

Typical properties: these are not to be construed as specifications.

0.984 mil

Method A, 0.984 mil



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