Exceed™ 1018CA
Metallocene Polyethylene Resin

Product Description

Exceed 1018CA is a metallocene ethylene-hexene copolymer.
Films made of Exceed 1018CA have outstanding tensile, puncture resistance and very good sealing properties. These superior properties together with excellent draw down make this a versatile polymer for mono layer and multi layer blown film applications.

General

Availability [1]	• Africa & Middle East	• Europe	
Additive	• Antiblock: No • Processing Aid: Yes	• Slip: No • Thermal Stabilizer: Yes	
Applications	• Agricultural Film • Bag in Box • Barrier Food Packaging • Blown Film • Blown Stretch Film • Bread Bags	• Food packaging • Form Fill And Seal Packaging • Freezer Film • General Packaging • Heavy Duty Bags • Lamination Film	• Multilayer Packaging Film • Overwrap Film • Packaging Films • Premium Trash Bags • Stand Up Pouches • Trash Bags
Revision Date	• March 2010		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.918	g/cm³	0.918	g/cm³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Peak Melting Temperature	244	°F	118	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Break MD	12500	psi	86.0	MPa	ASTM D882
Tensile Strength at Break TD	9860	psi	68.0	MPa	ASTM D882
Elongation at Break MD	560	%	560	%	ASTM D882
Elongation at Break TD	680	%	680	%	ASTM D882
Secant Modulus MD - 1% Secant	24700	psi	170	MPa	ASTM D882
Secant Modulus TD - 1% Secant	26100	psi	180	MPa	ASTM D882
Dart Drop Impact	1400	g	1400	g	ASTM D1709A
Elmendorf Tear Strength MD	230	g	230	g	ASTM D1922
Elmendorf Tear Strength TD	350	g	350	g	ASTM D1922
Puncture Energy	38.0	in·lb	4.29	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (60°)	14		14		ASTM D2457
Haze	3.0	%	3.0	%	ASTM D1003

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

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

Processing Statement
Film properties have been measured on a 25 µm (0.98 mil) thick film (BUR = 2.5 and temperature setting of 210°C, 410°F). Optical film properties have been measured on 25 µm (0.98 mil) thick film with addition of 10 % LDPE at same conditions.

Notes

[1] Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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