

Exceed™ 1018CA

Metalocene Polyethylene Resin

ExxonMobil
Chemical

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
Revision Date	• March 2010	• Multilayer Packaging Film • Overwrap Film • Packaging Films • Premium Trash Bags • Stand Up Pouches • Trash Bags

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	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.

© 2010 Exxon Mobil Corporation. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. ExxonMobil does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "ExxonMobil Chemical", or "ExxonMobil" are used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates they directly or indirectly steward. ExxonMobil, the ExxonMobil Chemical Emblem, the "Interlocking X" Device, Enable, Exceed, Exact, Excco, Escorene, Escor, lotek, NTX, Polybilt, Paxon and Optema are trademarks or service marks of Exxon Mobil Corporation.

ExxonMobil Chemical Exceed™ 1018CA Metallocene Polyethylene Resin

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.

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

© 2010 Exxon Mobil Corporation. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. ExxonMobil does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "ExxonMobil Chemical", or "ExxonMobil" are used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates they directly or indirectly steward. ExxonMobil, the ExxonMobil Chemical Emblem, the "Interlocking X" Device, Enable, Exceed, Exact, Exxco, Escorene, Escor, lotek, NTX, Polybilt, Paxon and Optema are trademarks or service marks of Exxon Mobil Corporation.