

Exceed™ 1018CA

Metalocene 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/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, Exxco, Escorene, Escor, Iotek, 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, Iotek, NTX, Polybilt, Paxon and Optema are trademarks or service marks of Exxon Mobil Corporation.