

Exact™ 3132

Ethylene-based Plastomer Resin

Product Description

EXACT 3132 is an ethylene-based hexene plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. It is designed for use in both monolayer and multilayer blown film applications requiring outstanding sealability and toughness.

General

| | | | |
|---------------------------|-----------------|-----------------|---------------------------|
| Availability ¹ | • Latin America | • North America | • South America |
| Additive | • Antiblock: No | • Slip: No | • Thermal Stabilizer: Yes |
| Applications | • Blown Film | | |
| Form(s) | • Pellets | | |
| Revision Date | • March 2010 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.900 g/cm ³ | 0.900 g/cm ³ | ExxonMobil Method |
| Melt Index ² | 1.2 g/10 min | 1.2 g/10 min | ExxonMobil Method |
| Peak Melting Temperature | 205 °F | 96 °C | ExxonMobil Method |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature | 190 °F | 88 °C | ASTM D1525 |
| Crystallization Peak, Tc | 174 °F | 79 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD | 720 psi | 4.9 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 660 psi | 4.6 MPa | ASTM D882 |
| Tensile Strength at Break MD | 11000 psi | 70 MPa | ASTM D882 |
| Tensile Strength at Break TD | 11000 psi | 70 MPa | ASTM D882 |
| Elongation at Yield MD | 9 % | 9 % | ASTM D882 |
| Elongation at Yield TD | 8 % | 8 % | ASTM D882 |
| Elongation at Break MD | 480 % | 480 % | ASTM D882 |
| Elongation at Break TD | 630 % | 630 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 11000 psi | 73 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 11000 psi | 77 MPa | ASTM D882 |
| Elmendorf Tear Strength MD | 170 g | 170 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 280 g | 280 g | ASTM D1922 |
| Puncture Force | 17 lbf | 77 N | ExxonMobil Method |
| Puncture Energy | 69 in·lb | 7.7 J | ExxonMobil Method |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 80 | 80 | ASTM D2457 |
| Haze | 2.5 % | 2.5 % | ASTM D1003 |

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

©2012 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of 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, freedom from patent infringement, 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. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

ExxonMobil Chemical Exact™ 3132 Ethylene-based Plastomer Resin

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.

Processing Statement

Film (1.25 mil/31.7 micron) made from Exact 3132 on a 2.5 inch blown film line having a 6 inch die with a 60 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 380-382°F (193-194°C).

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.

² Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

For additional technical, sales and order assistance:

| | | |
|-----------------------------|----------------------------------|--------------------------------|
| Worldwide and the Americas | Asia Pacific | Europe, Middle East and Africa |
| ExxonMobil Chemical Company | ExxonMobil Chemical Asia Pacific | ExxonMobil Chemical Europe |
| 13501 Katy Freeway | 1 HarbourFront Place | Hermeslaan 2 |
| Houston, TX 77079-1398 | #06-00 HarbourFront Tower One | 1831 Machelen, Belgium |
| USA | Singapore 098633 | 420-239-016-274 |
| 1-281-870-6050 | +86-21-24173999 | |

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

©2012 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of 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, freedom from patent infringement, 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. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.