

Exceed™ Tough+ m 0211.RA

Metallocene Polyethylene

Product Description

Exceed™ Tough+ m 0211.RA is an extreme Performance linear low density polyethylene 1-hexene copolymer that is especially designed to have high melt strength and superior mechanical and optical properties. The combination of high toughness (impact and puncture), melt stability, superior flex crack resistance and good sealing performance makes this grade a versatile blown film resin. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ Tough+ m 0211.RA. Exceed™ Tough+ m 0211.RA - when extreme Performance matters.

General

| | | | |
|---------------------------|--|--|--|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific | <ul style="list-style-type: none"> Europe Latin America | <ul style="list-style-type: none"> North America |
| Additive | <ul style="list-style-type: none"> Antiblock: No Slip: No | <ul style="list-style-type: none"> Thermal Stabilizer: Yes Alternative Processing Aid: Yes | |
| Applications | <ul style="list-style-type: none"> Blow Molding Blown Geomembrane Construction Liners Flexible Packaging | <ul style="list-style-type: none"> Food Packaging Greenhouse Film Lamination Film Liquid Packaging | <ul style="list-style-type: none"> Shrink Film Stretch and Shrink Sleeves Stretch Hood Film |
| Form(s) | <ul style="list-style-type: none"> Pellets | | |
| Revision Date | <ul style="list-style-type: none"> 04/19/2024 | | |

Resin Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|---------------|
| Density / Specific Gravity | 0.911 g/cm ³ | 0.911 g/cm ³ | ASTM D792 |
| Melt Index (190°C/2.16 kg) | 0.20 g/10 min | 0.20 g/10 min | ASTM D1238 |

Film Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD | 1000 psi | 6.9 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1000 psi | 7.2 MPa | ASTM D882 |
| Tensile Strength at Break MD | 11000 psi | 70 MPa | ASTM D882 |
| Tensile Strength at Break TD | 10000 psi | 70 MPa | ASTM D882 |
| Elongation at Break MD | 360 % | 360 % | ASTM D882 |
| Elongation at Break TD | 600 % | 600 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 17000 psi | 120 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 23000 psi | 160 MPa | ASTM D882 |
| Dart Drop Impact | 1100 g | 1100 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 40 g | 40 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 210 g | 210 g | ASTM D1922 |
| Puncture Force | 15 lbf | 66 N | ExxonMobil Method |
| Puncture Energy | 45 in-lb | 5.1 J | ExxonMobil Method |

Optical Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 52 | 52 | ASTM D2457 |
| Haze | 8.4 % | 8.4 % | ASTM D1003 |

Exceed™ Tough+ m 0211.RA Metallocene Polyethylene

Legal Statement

Exceed™ Tough+ m 0211.RA can in principle be used in food contact applications in all EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

Fluoropolymers, or fluorine-containing compounds, and tris(nonylphenol) phosphite (TNPP) CAS# 26523-78-4 are not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for their presence, based on product composition knowledge these substances are not expected to be present. However, the fact that these substances are not intentionally used by ExxonMobil in this product does not exclude that trace levels of these substances may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

Processing Statement

Film (1 mil/25.4 micron) made on a 3.5 in(90mm)blown film line with a 2.5:1 blow-up ratio, a target melt temperature of 450°F(218°C), a 30 mil(0.76mm)die gap at a rate of 5 lbs/hr/rpm.

Notes

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

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.

For additional technical, sales and order assistance: [Contact Us](#)

©2025 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 Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com