

Exceed™ m 2018.RB

(Legacy name: Exceed™ 2018RB)

Metallocene Polyethylene

Product Description

Exceed™ m 2018.RB is an ethylene 1-hexene copolymer resin. Films that incorporate Exceed™ m 2018.RB can enable outstanding tensile, impact strength and puncture performance. These superior strength properties, along with excellent drawability, highlight a very versatile packaging film resin. The higher melt index also makes this polymer resin suitable for blending into LDPE rich films. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ m 2018.RB.

General

| | |
|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe |
| Additive | <ul style="list-style-type: none"> Antiblock: 2500 ppm Slip: 800 ppm Thermal Stabilizer: Yes Alternative Processing Aid: Yes |
| Applications | <ul style="list-style-type: none"> Agricultural Film Bag in Box Barrier Food Packaging Blown Film Bread Bags Food Packaging Form Fill And Seal Packaging Freezer Film General Packaging Lamination Film Multilayer Packaging Film Overwrap Film Packaging Films Premium Trash Bags Stand Up Pouches Trash Bags |
| 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 | 0.918 g/cm ³ | 0.918 g/cm ³ | ASTM D792 |
| Melt Index (190°C/2.16 kg) | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 244 °F | 118 °C | ExxonMobil Method |

Thermal

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature | 221 °F | 105 °C | ExxonMobil Method |

Film Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD | 1300 psi | 9.0 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1400 psi | 9.3 MPa | ASTM D882 |
| Tensile Strength at Break MD | 7200 psi | 50 MPa | ASTM D882 |
| Tensile Strength at Break TD | 6100 psi | 42 MPa | ASTM D882 |
| Elongation at Break MD | 560 % | 560 % | ASTM D882 |
| Elongation at Break TD | 620 % | 620 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 26000 psi | 180 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 27000 psi | 180 MPa | ASTM D882 |
| Dart Drop Impact | 500 g | 500 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 330 g | 330 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 490 g | 490 g | ASTM D1922 |
| Puncture Force | 8 lbf | 35 N | ExxonMobil Method |
| Puncture Energy | 17 in-lb | 1.9 J | ExxonMobil Method |

Optical Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 50 | 50 | ASTM D2457 |
| Haze | 14 % | 14 % | ASTM D1003 |

Exceed™ m 2018.RB
Metallocene Polyethylene**Legal Statement**

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.

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

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

Processing Statement

Film (1 mil/25.4 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 400-420°F (204-216°C), a 60 mil (1.52 mm) die gap at a rate of 9 lbs/hr/in die circumference (1.61 kg/hr/cm).

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.

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