

Exxtra™ Seal m 1012.RJ

Metallocene Polyethylene

Product Description

Exxtra™ Seal m 1012.RJ is an ethylene 1-hexene copolymer resin. Films that incorporate these resins can enable outstanding cold temperature toughness, impact strength and puncture performance. These superior strength properties, along with excellent heat sealing and hot tack performance, make this a very versatile packaging film resin. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exxtra™ Seal m 1012.RJ.

General

| | | | |
|---------------------------|---|---|--|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Europe | <ul style="list-style-type: none"> Latin America North America | |
| Additive | <ul style="list-style-type: none"> Exxtra™ Seal m 1012.RJ: Antiblock: 4500 ppm; Slip: No; Thermal Stabilizer: Yes; Alternative Processing Aid: Yes | | |
| Applications | <ul style="list-style-type: none"> Bag in Box Barrier Food Packaging Blown Film Food Packaging | <ul style="list-style-type: none"> Form Fill And Seal Packaging Freezer Film Heavy Duty Bags Ice Bags | <ul style="list-style-type: none"> Lamination Film Multilayer Packaging Film Stand Up Pouches |
| 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 | 0.912 g/cm ³ | 0.912 g/cm ³ | ASTM D792 |
| Melt Index (190°C/2.16 kg) | 1.0 g/10 min | 1.0 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 238 °F | 114 °C | ExxonMobil Method |

Film Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD | 1000 psi | 7.0 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1000 psi | 6.9 MPa | ASTM D882 |
| Tensile Strength at Break MD | 8700 psi | 60 MPa | ASTM D882 |
| Tensile Strength at Break TD | 8300 psi | 60 MPa | ASTM D882 |
| Elongation at Break MD | 460 % | 460 % | ASTM D882 |
| Elongation at Break TD | 580 % | 580 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 16000 psi | 110 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 18000 psi | 120 MPa | ASTM D882 |
| Dart Drop Impact | 1100 g | 1100 g | ASTM D1709 |
| Elmendorf Tear Strength MD | 200 g | 200 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 300 g | 300 g | ASTM D1922 |
| Puncture Force | 13 lbf | 58 N | ExxonMobil Method |
| Puncture Energy | 55 in-lb | 6.2 J | ExxonMobil Method |

Optical Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 57 | 57 | ASTM D2457 |
| Haze | 9.5 % | 9.5 % | ASTM D1003 |

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, 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.

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

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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 390 - 440°F (199 - 210°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/ in die circumference (1.79 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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