

ExxonMobil™ NTX 102

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ NTX 102 Super Strength is an ethylene 1-hexene linear low density polyethylene resin. Films made from ExxonMobil™ NTX 102 resin have outstanding toughness properties, especially impact and tear strength, compared to other hexene copolymers. It is stabilized for blown film extrusion and does not contain slip or antiblock, making it well suited for blown stretch film.

General

| | |
|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Latin America North America |
| Additive | <ul style="list-style-type: none"> Antiblock: No Slip: No Processing Aid: No Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> Blown Stretch Film |
| Form(s) | <ul style="list-style-type: none"> Pellets |
| Revision Date | <ul style="list-style-type: none"> 03/16/2020 |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.917 g/cm ³ | 0.917 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 0.90 g/10 min | 0.90 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 253 °F | 123 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD | 1400 psi | 9.5 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1400 psi | 9.4 MPa | ASTM D882 |
| Tensile Strength at Break MD | 8900 psi | 60 MPa | ASTM D882 |
| Tensile Strength at Break TD | 7700 psi | 50 MPa | ASTM D882 |
| Elongation at Break MD | 560 % | 560 % | ASTM D882 |
| Elongation at Break TD | 730 % | 730 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 25000 psi | 170 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 27000 psi | 190 MPa | ASTM D882 |
| Dart Drop Impact | 320 g | 320 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 410 g | 410 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 590 g | 590 g | ASTM D1922 |
| Puncture Force | 11 lbf | 47 N | ExxonMobil Method |
| Puncture Energy | 35 in·lb | 3.9 J | ExxonMobil Method |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 33 | 33 | ASTM D2457 |
| Haze | 18 % | 18 % | 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.

Processing Statement

Film (1 mil/25.4 micron) on a 3.5 in (88.9 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 445°F (229°C), a 90 mil (2.3 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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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