

Product Datasheet



ExxonMobil™ NTX 101

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ NTX 101 Super Strength is an ethylene 1-hexene linear low density polyethylene resin. Films made from ExxonMobil™ NTX 101 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	- Latin America - North America
Additive	- Antiblock: No - Processing Aid: No - Slip: No - Thermal Stabilizer: Yes
Applications	Blown Stretch Film
Form(s)	Pellets
Revision Date	10/01/2019

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) made from NTX 101 resin 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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