

ExxonMobil™ NTX 101

Linear Low Density Polyethylene Resin

Product Description

NTX 101 is a Super Strength hexene copolymer LLDPE film resin. Films made from NTX 101 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 wrap.

General

Availability ¹	- Latin America - North America
Additive	- Antiblock: No - Processing Aid: No - Slip: No - Thermal Stabilizer: Yes
Applications	Blown Stretch Film
Revision Date	03/01/2010

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.917 g/cm ³	0.917 g/cm ³	ExxonMobil Method
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	1300 psi	9.1 MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.4 MPa	ASTM D882
Tensile Strength at Break MD	9100 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7400 psi	50 MPa	ASTM D882
Elongation at Break MD	630 %	630 %	ASTM D882
Elongation at Break TD	720 %	720 %	ASTM D882
Secant Modulus MD - 1% Secant	24000 psi	160 MPa	ASTM D882
Secant Modulus TD - 1% Secant	27000 psi	180 MPa	ASTM D882
Dart Drop Impact	330 g	330 g	ASTM D1709A
Elmendorf Tear Strength MD	460 g	460 g	ASTM D1922
Elmendorf Tear Strength TD	600 g	600 g	ASTM D1922
Puncture Force	10 lbf	42 N	ExxonMobil Method
Puncture Energy	32 in-lb	3.6 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	37	37	ASTM D2457
Haze	17 %	17 %	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) obtained on a Sano 3.5 inch line equipped with a 2.5:1 blow-up ratio and melt temperature of 390-440°F with a 90 mil die gap.

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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