

ExxonMobil™ NTX Series

Linear Low Density Polyethylene Resin

Product Description

NTX Super Strength hexene blown film resins are designed for applications requiring exceptional strength, especially tear, for maximum downgauging potential. NTX resins are formulated with slip and antiblock, both with and without processing aid, for use in all high performance film applications.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> NTX 095: Antiblock: 8000 ppm; Slip: 1400 ppm; Processing Aid: No; Thermal Stabilizer: Yes NTX 141: Antiblock: 6500 ppm; Slip: 1400 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> General Packaging Ice Bags Trash Bags Trash Can Liners
Revision Date	<ul style="list-style-type: none"> 05/01/2012

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	257 °F	125 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1100 psi	7.9 MPa	ASTM D882
Tensile Strength at Yield TD	1200 psi	8.1 MPa	ASTM D882
Tensile Strength at Break MD	7700 psi	50 MPa	ASTM D882
Tensile Strength at Break TD	6000 psi	42 MPa	ASTM D882
Elongation at Break MD	600 %	600 %	ASTM D882
Elongation at Break TD	710 %	710 %	ASTM D882
Secant Modulus MD - 1% Secant	24000 psi	160 MPa	ASTM D882
Secant Modulus TD - 1% Secant	26000 psi	180 MPa	ASTM D882
Dart Drop Impact	580 g	580 g	ASTM D1709A
Elmendorf Tear Strength MD	410 g	410 g	ASTM D1922
Elmendorf Tear Strength TD	600 g	600 g	ASTM D1922
Puncture Force	7 lbf	31 N	ExxonMobil Method
Puncture Energy	18 in·lb	2.0 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	35	35	ASTM D2457
Haze	25 %	25 %	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-141 on a 3.5 inch (88.9 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 443°F (228°C), a 90 mil (2.29 mm) die gap at a rate of 10 lbs/hr/in die (1.79 kg/hr/cm).

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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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