

ExxonMobil NTX™ NTX 101 Super Strength Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

Material Notes:

NTX 101 is a super strength hexene copolymer LLDPE film resin. Films made from this 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 wrap. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-NTX-NTX-101-Super-Strength-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	0.90 g/10 min	0.90 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.10 MPa	1320 psi	at 2% offset; ASTM D882
Film Tensile Strength at Yield, TD	9.38 MPa	1360 psi	at 2% offset; ASTM D882
Film Elongation at Break, MD	630 %	630 %	ASTM D882
Film Elongation at Break, TD	720 %	720 %	ASTM D882
Puncture Energy	3.62 J	2.67 ft-lb	ExxonMobil
Elmendorf Tear Strength, MD	18.1 g/micron	460 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	23.6 g/micron	600 g/mil	ASTM D1922
Dart Drop	13.0 g/micron	330 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	62.6 MPa	9080 psi	ASTM D882
Film Tensile Strength at Break, TD	50.8 MPa	7370 psi	ASTM D882
1% Secant Modulus, MD	163 MPa	23700 psi	ASTM D882
1% Secant Modulus, TD	183 MPa	26500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	109 °C	228 °F	ExxonMobil Method

Optical Properties	Metric	English	Comments
Haze	17 %	17 %	ASTM D1003
Gloss	37 %	37 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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