

**ExxonMobil LD 146.NH Packaging Film Resin (discontinued \*\*)**

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

**Material Notes:**

LD 146.NH is a homopolymer film resin offering good clarity, toughness, and stiffness. It is used in food packaging and laminating film. Information provided by ExxonMobil Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LD-146NH-Packaging-Film-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-LD-146NH-Packaging-Film-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	ExxonMobil Method
Thickness	38.1 microns	1.50 mil	
Melt Flow	3.75 g/10 min	3.75 g/10 min	ExxonMobil Method
Antiblock Level	1200 ppm	1200 ppm	
Slip Level	900 ppm	900 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.38 MPa	1360 psi	at 2% offset; ASTM D882
Film Tensile Strength at Yield, TD	9.58 MPa	1390 psi	at 2% offset; ASTM D882
Film Elongation at Break, MD	200 %	200 %	ASTM D882
Film Elongation at Break, TD	560 %	560 %	ASTM D882
Film Elongation at Yield, MD	6.4 %	6.4 %	ASTM D882
Film Elongation at Yield, TD	5.5 %	5.5 %	ASTM D882
Elmendorf Tear Strength MD	260 g	260 g	ASTM D1922
Elmendorf Tear Strength TD	140 g	140 g	ASTM D1922
Elmendorf Tear Strength, MD	6.823 g/micron	173.3 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.67 g/micron	93.3 g/mil	ASTM D1922
Dart Drop	2.36 g/micron	60.0 g/mil	ASTM D1709
Dart Drop Test	90.0 g	0.198 lb	ASTM D1709
Film Tensile Strength at Break, MD	21.2 MPa	3080 psi	ASTM D882
Film Tensile Strength at Break, TD	18.3 MPa	2650 psi	ASTM D882
1% Secant Modulus, MD			ASTM D882

Mechanical Properties	176 MPa Metric	25500 psi English	Comments
1% Secant Modulus, TD	212 MPa	30800 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	108 °C	226 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	95.0 °C	203 °F	ExxonMobil Method
Vicat Softening Point	91.7 °C	197 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	5.5 %	5.5 %	ASTM D1003
Gloss	73 %	73 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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