

ExxonMobil™ LLDPE LL 1001 Series

Linear Low Density Polyethylene Resin

Product Description

LL 1001 series are LLDPE grades, offering excellent drawdown and puncture resistance combined with high gloss and clarity. They are also frequently used as a blend partner with LDPE resins to improve film properties and processability. Several additive packages are available according to the required surface properties.

General

Availability ¹	• Africa & Middle East	• Europe
Additive	<ul style="list-style-type: none"> • LL 1001KI: Antiblock: 2500 ppm; Processing Aid: No; Slip: 1000 ppm; Thermal Stabilizer: Yes • LL 1001XV: Antiblock: No; Processing Aid: No; Slip: No; Thermal Stabilizer: Yes • LL 1001KW: Antiblock: 3500 ppm; Processing Aid: No; Slip: 1500 ppm; Thermal Stabilizer: Yes 	
Applications	<ul style="list-style-type: none"> • Agricultural Film • Bag in Box • Barrier Food Packaging • Blown Film • Bread Bags • Food packaging • Form Fill And Seal Packaging • Freezer Film 	<ul style="list-style-type: none"> • Garment Film • General Packaging • Heavy Duty Bags • Ice Bags • Industrial Liners • Industrial Packaging • Lamination Film • Liners
Revision Date	• March 2010	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Peak Melting Temperature	248 °F	120 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	8120 psi	56.0 MPa	ASTM D882
Tensile Strength at Break TD	5220 psi	36.0 MPa	ASTM D882
Elongation at Break MD	550 %	550 %	ASTM D882
Elongation at Break TD	850 %	850 %	ASTM D882
Secant Modulus MD	29000 psi	200 MPa	ASTM D882
Secant Modulus TD - 1% Secant	31900 psi	220 MPa	ASTM D882
Dart Drop Impact	90 g	90 g	ASTM D1709A
Elmendorf Tear Strength MD	80 g	80 g	ASTM D1922
Elmendorf Tear Strength TD	450 g	450 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	48	48	ASTM D2457
Haze	13 %	13 %	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.

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical ExxonMobil™ LLDPE LL 1001 Series

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Processing Statement

The film properties have been measured on 30 µm (1.18 mil) thick films of LL 1001XV (Blow-up ratio : 2.5)

Notes

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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