

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	<ul style="list-style-type: none"> Asia Pacific 		
Additive	<ul style="list-style-type: none"> LL 1001KI: Antiblock: 2500 ppm; Slip: 1000 ppm; Processing Aid: No; Thermal Stabilizer: Yes LL 1001XV: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes LL 1001ZB: Antiblock: 5000 ppm; Slip: 1600 ppm; Processing Aid: No; Thermal Stabilizer: Yes LL 1001KW: Antiblock: 3500 ppm; Slip: 1500 ppm; Processing Aid: No; Thermal Stabilizer: Yes 		
Applications	<ul style="list-style-type: none"> Agricultural Film Blown Film Bread Bags Food packaging Form Fill And Seal Packaging Freezer Film Garment Film 	<ul style="list-style-type: none"> General Packaging Heavy Duty Bags Ice Bags Industrial Liners Industrial Packaging Lamination Film Liners 	<ul style="list-style-type: none"> Multilayer Packaging Film Packaging Films Produce Bags Refuse Bags Shoppers Stand Up Pouches Trash Bags
Revision Date	<ul style="list-style-type: none"> 03/01/2010 		

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
Film Thickness - Tested	1.2 mil	30 µm	
Tensile Strength at Break MD	8300 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	5500 psi	38 MPa	ASTM D882
Elongation at Break MD	590 %	590 %	ASTM D882
Elongation at Break TD	860 %	860 %	ASTM D882
Secant Modulus MD - 1% Secant	32000 psi	220 MPa	ASTM D882
Secant Modulus TD - 1% Secant	36000 psi	250 MPa	ASTM D882
Dart Drop Impact	120 g	120 g	ASTM D1709A
Elmendorf Tear Strength MD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength TD	480 g	480 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	47	47	ASTM D2457
Haze	9.0 %	9.0 %	ASTM D1003

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

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

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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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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