

# ExxonMobil™ LLDPE LL 1236 Series

## Linear Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LL 1236 Series are ethylene 1-butene linear low density polyethylene resins with increased stiffness and a higher melt index. These resins can be used alone or as a component in blown or cast packaging and industrial film.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>LL 1236.85: Antiblock: No; Slip: 400 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes</li> <li>LL 1236.86: Antiblock: 6000 ppm; Slip: 1500 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes</li> <li>LL 1236.84: Antiblock: No; Slip: 400 ppm; Processing Aid: No; Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Blown Film</li> <li>Bread Bags</li> <li>Cast Film</li> <li>Food Packaging</li> <li>Packaging Films</li> <li>Paper Overwrap</li> <li>Zipper Bag</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>06/11/2020</li> </ul>

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.925 g/cm <sup>3</sup>	0.925 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	3.6 g/10 min	3.6 g/10 min	ASTM D1238
Peak Melting Temperature	253 °F	123 °C	ExxonMobil Method

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	212 °F	100 °C	ExxonMobil Method

### Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Yield TD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	5800 psi	40 MPa	ASTM D882
Tensile Strength at Break TD	3600 psi	25 MPa	ASTM D882
Elongation at Break MD	530 %	530 %	ASTM D882
Elongation at Break TD	810 %	810 %	ASTM D882
Secant Modulus MD - 1% Secant	30000 psi	200 MPa	ASTM D882
Secant Modulus TD - 1% Secant	33000 psi	220 MPa	ASTM D882
Dart Drop Impact	< 60 g	< 60 g	ASTM D1709A
Elmendorf Tear Strength MD	30 g	30 g	ASTM D1922
Elmendorf Tear Strength TD	280 g	280 g	ASTM D1922
Puncture Force	6 lbf	28 N	ExxonMobil Method
Puncture Energy	14 in-lb	1.6 J	ExxonMobil Method

### Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss	91	91	ASTM D2457
Haze	2.3 %	2.3 %	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 (0.8 mil / 20 micron) made from LL 1236.85 resin on a 3.5 inch cast film line with a 8.25 in (21 cm) melt curtain, 80°F (27°C) chill roll temperature at a 365 ft/min (111 m/min) take-off speed and a melt temperature of 527°F (275°C).

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#### Notes

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

<sup>1</sup> 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](http://www.exxonmobilchemical.com/ContactUs)

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