

ExxonMobil™ LLDPE LL 1236 Series

Linear Low Density Polyethylene Resin

Product Description

LL 1236 Series resins are butene LLDPEs with increased stiffness and a higher melt index. They can be used alone or as a component in packaging and industrial film, blown or cast.

General

Additive	- LL 1236.86: Antiblock: 6000 ppm; Slip: 1500 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes - LL 1236.85: Antiblock: No; Slip: 400 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	- Blown Film - Bread Bags - Cast Film	- Food Packaging - Packaging Films - Paper Overwrap	Zipper Bag
Form(s)	Pellets		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.925 g/cm ³	0.925 g/cm ³	ASTM D1505
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

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	6500 psi	45 MPa	ASTM D882
Tensile Strength at Break TD	3500 psi	24 MPa	ASTM D882
Elongation at Break MD	610 %	610 %	ASTM D882
Elongation at Break TD	850 %	850 %	ASTM D882
Secant Modulus MD	29000 psi	200 MPa	ASTM D882
Secant Modulus TD	31000 psi	210 MPa	ASTM D882
Dart Drop Impact	< 50 g	< 50 g	ASTM D1709A
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	300 g	300 g	ASTM D1922
Puncture Force	7 lbf	29 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	92	92	ASTM D2457
Haze	1.1 %	1.1 %	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) was made from LL 1236.85 on a 3.5 inch (88.9 mm) cast line at a 5.5 inch (14 cm) melt curtain length, 520-580°F (271-304°C) melt temperature, 80°F (26.7°C) chill roll temperature and 750 fpm (229 mpm) line speed.

Notes

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.