Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 2025 Series

Low Density Polyethylene

Product Description

ExxonMobil™ LD 2025 series are LDPE grades, specially designed for lamination and co-extruded films. They offer good mechanical, stiffness and optical properties, combined with very low gel level. These grades have a Film Appearance specification. Two additive packages are available tailored to the needs of the laminator. LD 2025 is manufactured with narrow specifications to suit the high consistency requirements of lamination films.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ LD 2025.BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ LD 2025.JD: Antiblock: 1800 ppm; Slip: 330 ppm; Thermal Stabilizer: Yes		
Applications	▪ Bread Bags ▪ Co-Extrusion Films ▪ Display Packaging Film	▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ High Clarity Film	▪ High Quality Lamination ▪ Lamination Film
Revision Date	▪ 03/01/2013		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.925	g/cm³	0.925	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Peak Melting Temperature	232	°F	111	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break MD	3300	psi	23	MPa	ASTM D882
Tensile Strength at Break TD	3000	psi	21	MPa	ASTM D882
Elongation at Break MD	200	%	200	%	ASTM D882
Elongation at Break TD	500	%	500	%	ASTM D882
Secant Modulus MD - 1% Secant	35000	psi	240	MPa	ASTM D882
Secant Modulus TD - 1% Secant	41000	psi	280	MPa	ASTM D882
Dart Drop Impact	80	g	80	g	ASTM D1709A
Elmendorf Tear Strength MD	200	g	200	g	ASTM D1922
Elmendorf Tear Strength TD	120	g	120	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	69		69		ASTM D2457
Haze	5.0	%	5.0	%	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 test specimen were prepared on LD 2025.BW, 30µm (1.18mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.5 and temperature profile of 140 - 170°C (284 - 338°F).

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.

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For additional technical, sales and order assistance: Contact Us

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