Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 1931.BA Blown

Low Density Polyethylene

Product Description

ExxonMobil™ LD 1931.BA offers good toughness and optical properties.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Co-Extrusion Films ▪ Diaper Backsheet ▪ Embossed Film	▪ Foams ▪ Hygiene Packaging ▪ Label Film	▪ Overwrap Film ▪ Paper Overwrap
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.931	g/cm³	0.931	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	1.9	g/10 min	1.9	g/10 min	ASTM D1238
Peak Melting Temperature	240	°F	116	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield TD	2200	psi	16	MPa	ASTM D882
Tensile Strength at Break MD	4400	psi	30	MPa	ASTM D882
Tensile Strength at Break TD	2800	psi	19	MPa	ASTM D882
Elongation at Break MD	360	%	360	%	ASTM D882
Elongation at Break TD	550	%	550	%	ASTM D882
Secant Modulus MD - 1% Secant	50000	psi	350	MPa	ASTM D882
Secant Modulus TD - 1% Secant	58000	psi	400	MPa	ASTM D882
Dart Drop Impact	60	g	60	g	ASTM D1709A
Elmendorf Tear Strength MD	150	g	150	g	ASTM D1922
Elmendorf Tear Strength TD	170	g	170	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	69		69		ASTM D2457
Haze	5.9	%	5.9	%	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 ExxonMobil™ LD 1931.BA, 30µm (1.18 mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratioof 2.5 and temperature profile of 180 - 190°C (356 - 374°F) 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.

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

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For additional technical, sales and order assistance: Contact Us

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