Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 2423.LN

Low Density Polyethylene

Product Description

ExxonMobil™ LD 2423.LN blown film grade offers an excellent balance of optical and strength properties for general purpose clear film applications.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Blend Partner ▪ Bread Bags ▪ Cast Film ▪ Foams	▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ High Clarity Film ▪ Lamination Film	▪ Light Duty Shrink Film ▪ Mail Bag ▪ Produce Bags ▪ Textile Packaging
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.4	g/10 min	2.4	g/10 min	ASTM D1238
Peak Melting Temperature	235	°F	113	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	198	°F	92.0	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1600	psi	11	MPa	ASTM D882
Tensile Strength at Yield TD	1900	psi	13	MPa	ASTM D882
Tensile Strength at Break MD	4100	psi	28	MPa	ASTM D882
Tensile Strength at Break TD	3400	psi	24	MPa	ASTM D882
Elongation at Break MD	270	%	270	%	ASTM D882
Elongation at Break TD	660	%	660	%	ASTM D882
Secant Modulus MD - 1% Secant	32000	psi	220	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	510	g	510	g	ASTM D1922
Elmendorf Tear Strength TD	130	g	130	g	ASTM D1922
Puncture Force	12	lbf	51	N	ExxonMobil Method
Puncture Energy	13	in·lb	1.5	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	71		71		ASTM D2457
Haze	5.1	%	5.1	%	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 (1.5 mil/38.1 micron) made from LD 2423.LN resin on a 2.5 inch (63.5mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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

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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.

For additional technical, sales and order assistance: Contact Us

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