Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 2123.DJ

Low Density Polyethylene

Product Description

ExxonMobil™ LD 2123.DJ is a homopolymer packaging film resin with excellent clarity and good stiffness. LD 2123.DJ resin is suitable for processing in either blown or cast film equipment. In blown film equipment LD 2123.DJ resin can be drawn down to 1.0 mil.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ LD 2123.DJ: Antiblock: 1500 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes		
Applications	▪ Blend Partner ▪ Cast Film ▪ Display Packaging Film ▪ 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)	2.1	g/10 min	2.1	g/10 min	ASTM D1238
Peak Melting Temperature	230	°F	110	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	203	°F	95.0	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1500	psi	11	MPa	ASTM D882
Tensile Strength at Yield TD	1600	psi	11	MPa	ASTM D882
Tensile Strength at Break MD	3400	psi	24	MPa	ASTM D882
Tensile Strength at Break TD	2700	psi	18	MPa	ASTM D882
Elongation at Break MD	150	%	150	%	ASTM D882
Elongation at Break TD	520	%	520	%	ASTM D882
Secant Modulus MD - 1% Secant	31000	psi	210	MPa	ASTM D882
Secant Modulus TD - 1% Secant	37000	psi	250	MPa	ASTM D882
Dart Drop Impact	90	g	90	g	ASTM D1709A
Elmendorf Tear Strength MD	350	g	350	g	ASTM D1922
Elmendorf Tear Strength TD	160	g	160	g	ASTM D1922
Puncture Force	6	lbf	28	N	ExxonMobil Method
Puncture Energy	3.0	in·lb	0.34	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	74		74		ASTM D2457
Haze	5.9	%	5.9	%	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 on a 2.5 inch (63.5 mm) 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