ExxonMobil Signature Polymers

ExxonMobil™ LD 3127.BR

(Legacy name: ExxonMobil™ LDPE LD 144BR)

Low Density Polyethylene

Product Description

ExxonMobil™ LD 3127.BR is an LDPE grade, which offers excellent optical properties combined with increased stiffness and drawdown properties.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Antiblock: 1000 ppm	▪ Slip: 750 ppm	▪ Thermal Stabilizer: Yes
Applications	▪ Blend Partner ▪ Bread Bags ▪ Cast Film ▪ Co-Extrusion Films ▪ Display Packaging Film	▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ High Clarity Film ▪ Laundry Film ▪ Light Duty Shrink Film	▪ Mail Bag ▪ Overwrap Film ▪ Produce Bags ▪ Salad Bags
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.927	g/cm³	0.927	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	3.1	g/10 min	3.1	g/10 min	ASTM D1238
Peak Melting Temperature	233	°F	112	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1900	psi	13	MPa	ASTM D882
Tensile Strength at Yield TD	1800	psi	13	MPa	ASTM D882
Tensile Strength at Break MD	3600	psi	25	MPa	ASTM D882
Tensile Strength at Break TD	2400	psi	17	MPa	ASTM D882
Elongation at Break MD	150	%	150	%	ASTM D882
Elongation at Break TD	480	%	480	%	ASTM D882
Secant Modulus MD - 1% Secant	37000	psi	260	MPa	ASTM D882
Secant Modulus TD - 1% Secant	44000	psi	310	MPa	ASTM D882
Dart Drop Impact	60	g	60	g	ASTM D1709A
Elmendorf Tear Strength MD	350	g	350	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°)	72		72		ASTM D2457
Haze	6.2	%	6.2	%	ASTM D1003

Processing Statement

The film properties have been measured on a 30 µm (1.18 mil) thick film (Blow-up ratio : 2.5) using a 200mm (7.9 inch) die, die gap of 1.0mm and a temperature profile of 180 - 190°C (356 - 374 °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: www.exxonmobilchemical.com/ContactUs

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