ExxonMobil Signature Polymers

ExxonMobil™ LD 3529

(Legacy name: Nexxstar™ LDPE-00328)

Low Density Polyethylene

Product Description

ExxonMobil™ LD 3529 resin is an LDPE grade that offers good film rigidity combined with good optical properties.

General

Availability [1]	▪ Europe	▪ Latin America	▪ North America
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ High Performance Collation Shrink		
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.929	g/cm³	0.929	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.35	g/10 min	0.35	g/10 min	ASTM D1238
Peak Melting Temperature	239	°F	115	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	216	°F	102	°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	2100	psi	14	MPa	ASTM D882
Tensile Strength at Break MD	4000	psi	28	MPa	ASTM D882
Tensile Strength at Break TD	3800	psi	26	MPa	ASTM D882
Elongation at Break MD	340	%	340	%	ASTM D882
Elongation at Break TD	620	%	620	%	ASTM D882
Secant Modulus MD - 1% Secant	43000	psi	300	MPa	ASTM D882
Secant Modulus TD - 1% Secant	53000	psi	370	MPa	ASTM D882
Dart Drop Impact	110	g	110	g	ASTM D1709A
Elmendorf Tear Strength MD	170	g	170	g	ASTM D1922
Elmendorf Tear Strength TD	220	g	220	g	ASTM D1922
Puncture Force	15	lbf	67	N	ExxonMobil Method
Puncture Energy	18	in·lb	2.0	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	55		55		ASTM D2457
Haze	9.2	%	9.2	%	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 (2.0 mil/50.8 micron) made from ExxonMobil™ LD 3529 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 360-380°F (182-193°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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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