ExxonMobil™ LDPE LD 129.DS

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LDPE LD 129.DS is a medium density homopolymer resin with good clarity and excellent stiffness. Films made from LD 129.DS resin can be used in overwrap applications and in push through type packaging equipment. LD 129.DS resin is suitable for processing in either blown or cast film equipment.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ LD 129.DS: Antiblock: 1000 ppm; Slip: No; Thermal Stabilizer: Yes		
Applications	▪ Bread Bags ▪ Cast Film ▪ Co-Extrusion Films	▪ Diaper Backsheet ▪ Embossed Film ▪ Hygiene Packaging	▪ Label Film ▪ Overwrap Film ▪ Paper Overwrap
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)	2.3	g/10 min	2.3	g/10 min	ASTM D1238
Peak Melting Temperature	243	°F	117	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	2100	psi	15	MPa	ASTM D882
Tensile Strength at Yield TD	2300	psi	16	MPa	ASTM D882
Tensile Strength at Break MD	3400	psi	23	MPa	ASTM D882
Tensile Strength at Break TD	2500	psi	17	MPa	ASTM D882
Elongation at Break MD	180	%	180	%	ASTM D882
Elongation at Break TD	470	%	470	%	ASTM D882
Secant Modulus MD - 1% Secant	46000	psi	320	MPa	ASTM D882
Secant Modulus TD - 1% Secant	56000	psi	390	MPa	ASTM D882
Dart Drop Impact	70	g	70	g	ASTM D1709A
Elmendorf Tear Strength MD	100	g	100	g	ASTM D1922
Elmendorf Tear Strength TD	270	g	270	g	ASTM D1922
Puncture Force	7	lbf	29	N	ExxonMobil Method
Puncture Energy	2.8	in·lb	0.32	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	70		70		ASTM D2457
Haze	8.0	%	8.0	%	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 129.24 resin 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).

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.

ExxonMobil™ LDPE LD 129.DS
Low Density Polyethylene Resin

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

exxonmobilchemical.com