ExxonMobil™ LDPE LD 071 Series

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 071 case wrap film resins combine good processability with excellent strength and good film optics for bundling applications requiring proper shrink performance, toughness and burn-through resistance and clarity.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ LD 071.LQ: Antiblock: 4000 ppm; Slip: No; Thermal Stabilizer: No ▪ LD 071.LR: Antiblock: 2000 ppm; Slip: No; Thermal Stabilizer: No		
Applications	▪ Blend Partner ▪ Co-Extrusion Films ▪ Collation Shrink	▪ Construction Film ▪ Form Fill And Seal Packaging ▪ Freezer Film	▪ Lamination Film ▪ Medium Duty Shrink Film ▪ Pallet Shrink Film
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.924	g/cm³	0.924	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.70	g/10 min	0.70	g/10 min	ASTM D1238
Peak Melting Temperature	234	°F	112	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature (A (10N))	203	°F	95.0	°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	1700	psi	11	MPa	ASTM D882
Tensile Strength at Break MD	3700	psi	25	MPa	ASTM D882
Tensile Strength at Break TD	3100	psi	22	MPa	ASTM D882
Elongation at Break MD	140	%	140	%	ASTM D882
Elongation at Break TD	530	%	530	%	ASTM D882
Secant Modulus MD - 1% Secant	34000	psi	230	MPa	ASTM D882
Secant Modulus TD - 1% Secant	40000	psi	280	MPa	ASTM D882
Dart Drop Impact	160	g	160	g	ASTM D1709A
Elmendorf Tear Strength MD	510	g	510	g	ASTM D1922
Elmendorf Tear Strength TD	150	g	150	g	ASTM D1922
Puncture Force	13	lbf	56	N	ExxonMobil Method
Puncture Energy	8.1	in·lb	0.92	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	58		58		ASTM D2457
Haze	9.4	%	9.4	%	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 LD 071.LR 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).

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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: www.exxonmobilchemical.com/ContactUs

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