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Product Datasheet

ExxonMobil™ LDPE LD 331.NM



Low Density Polyethylene Resin

Product Description

ExxonMobil™ LDPE LD 331.NM is a 5.9 wt% vinyl acetate copolymer, high clarity film resin. Films made from LD 331.NM resins exhibit superior impact strength and heat sealability.

General						
Availability ¹	 Latin America 		North America			
Additive	Antiblock: No		Slip: No	Thermal Sta	abilizer: Yes	
Applications	Co-Extrusion FilmsFoamsForm Fill And Seal Pa		Freezer Film High Clarity Film Lamination Film	, ,	Poultry BagProduce Bags	
Form(s)	 Pellets 					
Revision Date	• 08/02/2021					
Resin Properties	Typical Value		Typical Value		Test Based On	
Density	0.926	g/cm³	0.926	g/cm³	ASTM D1505	
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238	
Vinyl Acetate Content	5.9	wt%	5.9	wt%	ExxonMobil Method	
Peak Melting Temperature	214	°F	101	°C	ExxonMobil Method	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Vicat Softening Temperature	178		81.0	` '	ExxonMobil Method	
Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Tensile Strength at Yield MD	1000	psi	7.1	MPa	ASTM D882	
Tensile Strength at Yield TD	1000	psi	6.9	MPa	ASTM D882	
Tensile Strength at Break MD	4300	psi	29	MPa	ASTM D882	
Tensile Strength at Break TD	3600	psi	25	MPa	ASTM D882	
Elongation at Break MD	330	%	330	%	ASTM D882	
Elongation at Break TD	620	%	620	%	ASTM D882	
Secant Modulus MD - 1% Secant	17000	psi	120	MPa	ASTM D882	
Secant Modulus TD - 1% Secant	19000	psi	130	MPa	ASTM D882	
Dart Drop Impact	230	9	230	g	ASTM D1709A	
Elmendorf Tear Strength MD	160		160	g	ASTM D1922	
Elmendorf Tear Strength TD	100		100	9	ASTM D1922	
Puncture Force	13		59	N	ExxonMobil Method	
Puncture Energy	24	in·lb	2.7	J	ExxonMobil Method	
				4.3		
Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Gloss (45°)	84		84		ASTM D2457	
Haze	2.5	%	2.5	%	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).

Effective Date: 08/02/2021 Page: 1 of 2 ExxonMobil



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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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