

ExxonMobil™ LDPE LD 312 Series

Low Density Polyethylene Resin

ExxonMobil Chemical

Message:

ExxonMobil LD 312 is a 4.6% (mass fraction) vinyl acetate copolymer used to make films with good toughness. The comonomer content and low melt index of the resin help to produce films with excellent impact strength, good heat sealability and good low temperature performance.

General Information			
Additive		LD 312.82: anti-caking agent (4000 ppm); Heat stabilizer; Sliding agent (800 ppm)	
		LD 312.23: anti-caking agent (5000 ppm); Heat stabilizer; Sliding agent (1100 ppm)	
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Vinyl Acetate Content	4.6	wt%	ExxonMobil Method
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	139	MPa	ASTM D882
1% secant, TD	165	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	25.0	MPa	ASTM D882
TD: Fracture	23.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	170	%	ASTM D882
TD: Fracture	560	%	ASTM D882
Dart Drop Impact	200	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	190	g	ASTM D1922
TD	92	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	66		ASTM D2457
Haze	8.5	%	ASTM D1003
Legal statement			

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