

ExxonMobil™ LLDPE LL 1002 Series

Linear Low Density Polyethylene Resin

ExxonMobil Chemical

Message:

LL 1002 resin is butene linear low density polyethylene, developed for blown film processing. The film made of LL 1002 resin has excellent tensile properties and toughness. LL1002.09 is a granular material, and it can be used in film production and preparation.

General Information			
Additive	LL 1002X75: anti-caking agent (7500 ppm); Heat stabilizer; Slip agent (1350 ppm)		
	LL 1002.80: anti-caking agent (3500 ppm); Heat stabilizer; Slip agent (1500 ppm)		
	LL 1002.09 Granular: heat stabilizer		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	177	MPa	ASTM D882
1% secant, TD	196	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	8.50	MPa	ASTM D882
TD: Yield	8.60	MPa	ASTM D882
MD: Fracture	36.5	MPa	ASTM D882
TD: Fracture	26.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	660	%	ASTM D882
TD: Fracture	780	%	ASTM D882
Dart Drop Impact	70	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	120	g	ASTM D1922
TD	340	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	22		ASTM D2457
Haze	29	%	ASTM D1003
Legal statement			

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