

ExxonMobil

Linear Low Density Polyethylene

LL-3002 Premium Cast Film Resin

Description

LL-3002 is a hexene copolymer LLDPE cast film resin. Films made from LL-3002 have outstanding tensile properties as well as stiffness and toughness. These superior properties combined with the resin's good drawdown make LL-3002 a very versatile packaging film resin.

Applications

- Stretch wrap film
- Premium packaging film

Resin Properties	Test Based On	Units (SI)	Typical Value ³
Melt Index	ASTM D-1238 (E)	g/10 min.	2.0
Density	ExxonMobil Method	g/cm ³	0.917
Melting Point	ExxonMobil Method	°F (°C)	255 (124)

Film Properties				Cast ¹	Blown ²
Gauge		ExxonMobil Method	mil (micron)	0.8	1.2
Haze		ASTM D-1003	%	2	12
Gloss, 45°		ASTM D-2457	-	95	53
Tensile Strength	@ Yield	MD	ASTM D-882	psi	1200
	@ Break	MD			10000
Ultimate Elongation		MD	ASTM D-882	%	410
1% Secant Modulus		MD	ASTM D-882	psi	17,000
Elmendorf Tear Strength		MD	ASTM D-1922	g	160
Puncture		ExxonMobil Method	in-lb	24	24
Dart Drop Impact, F ₅₀		ExxonMobil Method	g	90	120

1. Film was obtained on a Black Clawson 3½" cast film line at 750 ft/min take-off speed and melt temperature of 525-575°F.
2. Film obtained on a Sano 3½" blown film line with 2.5:1 blow-up ratio and melt temperature of 390-440°F with wide die gap.
3. Values given are typical for clear film without trim recycle and should not be interpreted as specification.

FDA Status

LL-3002 is an olefin copolymer which complies with FDA Regulation 21 CFR 177.1520 (c) 3.1, and may be used in articles which are intended to contact food except during cooking.