

Description

LL 1001 are butene LLDPE blown film resins having good drawdown.

Films made from LL 1001 resins exhibit good tensile and toughness properties.

Applications

- Refuse and trash bags
- Drum and box liners
- Industrial liners
- Stretch film
- Produce bags
- Frozen food packaging

Additive Package	PPA	Antiblock	Slip	Thermal Stabilizer
LL 1001x26	Yes	No	No	Yes
LL 1001x59	No	No	No	Yes
LL 1001x72	No	5000 ppm	850 ppm	Yes
LL 1001x74	No	5000 ppm	1700 ppm	Yes
LL 1001x76	No	7000 ppm	No	Yes

Resin Properties	Test Based On	Typical Value / Units
Melt Index	ExxonMobil Method	1.0 g/10 min
Density	ExxonMobil Method	0.918 g/cm ³
Peak Melting Temperature	ExxonMobil Method	121°C 249°F

Film Properties¹ (1 mil (25.4 micron) film)

Haze		ASTM D-1003	15.3%	
Gloss, 45°		ASTM D-2457	45	
Yield Strength @ 2% Offset	MD	ASTM D-882	9.4 MPa	1360 psi
	TD		9.5 MPa	1380 psi
Tensile Strength	MD	ASTM D-882	53.1 MPa	7700 psi
	TD		35.3 MPa	5120 psi
Elongation @ Break	MD	ASTM D-882	580%	
	TD		850%	
1% Secant Modulus	MD	ASTM D-882	193.4 MPa	28000 psi
	TD		222.6 MPa	32300 psi
Tear Resistance	MD	ASTM D-1922	80 g	
	TD		400 g	
Puncture Break Energy		ExxonMobil Method	42.7 N	9.6-lb
			3.1 J	27.7 in-lb
Dart Drop Impact, F ₅₀		ASTM D1709A	104 g	

1. Film was made from LL 1001X26 on a 2.5 inch blown film having a 6 inch die with a 60 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 390-395 °F (198-202 °C).

LL 1001 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply.

*** The reported values are typical and do not constitute a warranty but a guide for the diverse application possibilities.