

ExxonMobil LD 102

Low Density Polyethylene for Thin Gauged Films

Description

ExxonMobil LD 102 is a homopolymer, good clarity, laundry and dry cleaning film resin capable of providing a tough film in very thin gauges.

Applications

- Dry cleaning bags
- Protective garment bags
- Other film applications requiring drawdown to 0.5 mil or less

Resin Properties	Test Based On	Units (SI)	Typical Value ¹
Melt Index	ExxonMobil Method	g/10 min	6.8
Density	ExxonMobil Method	g/cm ³	0.921
Peak Melting Temperature	ExxonMobil Method	°F (°C)	230 (110)
Vicat Softening Point	ASTM D1525	°F (°C)	189 - 196 (87 - 91)

Film Properties² (1.5 mil film)

Haze		ASTM D 1003	%	4
Gloss, 45°		ASTM D 2457	-	83
1% Secant Modulus	MD	ASTM D 882	psi (MPa)	22,800 (157)
	TD			26,400 (182)
Yield Strength	MD	ASTM D 882	psi (MPa)	1300 (9)
	TD			1400 (10)
Yield Elongation	MD	ASTM D 882	%	7.0
	TD			7.4
Break Strength	MD	ASTM D 882	psi (MPa)	2900 (20)
	TD			3000 (21)
Break Elongation	MD	ASTM D 882	%	380
	TD			610
Elmendorf Tear Strength	MD	ASTM D 1922	g/mil	130
	TD			84
Dart Drop Impact, F ₅₀		ASTM D 1709	g/mil	66

1. Values are typical and should not be interpreted as specifications.
2. Film obtained on a 1.75 inch blown film line with 2.2:1 blow-up ratio and melt temperature of 360-380°F (180-195°C).

FDA Status

LD 102 complies with FDA Regulations 21 CFR 177.1520 (c) 2.1 "Olefin polymers" and may be used in articles that are intended to contact foods except during cooking. Contact your ExxonMobil representative for additional information.

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