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Recommended blown film

Melt temperature : 160 - 180 °C

Blow-up ratio : 2.5 : 1 (or higher)

Film thickness range : 25 - 60 µm

extrusion conditions

Chemicui

ExxonMobil_® LDPE

LD 100 series

Low Density Polyethylene for blown film applications

Key features

LD 100 series are LDPE grades, offering a good balance of optical and mechanical properties.

Several additive packages are available according to the required surface properties.

They are typically used in produce bags, Tshirt carrier bags, display packaging and light duty shrink film.

Additive packages

		Antiblock	Slip	Stabilizer
		(ppm)	(ppm)	(non BHT)
LD 100 BW	-	-	-	+
LD 100 AC		450	500 (*)	+
LD 100 BR		1000	750 (*)	+
(*) Erucamide				

Typical values

General properties		Test Method (based on)	Unit	Typical Value
Melt Index		ASTM D 1238	g/10 min	2
Density		ASTM D 2839/1505	g/cm ³	0.923
Melting Point (DSC)		ASTM D 3418	°C	109
Crystallization Point (DSC)		ASTM D 3418	°C	95
Film properties				
Tensile Strength at Break	MD / TD	ASTM D 882	MPa	27 / 22
Elongation at Break	MD / TD	ASTM D 882	%	270 /580
1 % Secant Modulus	MD / TD	ASTM D 882	MPa	210 / 250
Haze		ASTM D 1003	%	6
Gloss (60° angle)		ASTM D 2457	%	10
Clarity		ASTM D 1746	%	60
Dart Drop Impact (A/Face)		ASTM D 1709	g/µm	2.5
Elmendorf Tear Strength	MD / TD	ASTM D 1922	g/µm	5.8 / 3.6

The film properties have been measured on a 30 µm thick film LD 100 BW (Blow-up ratio : 2.5)

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