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.

Recommended blown film extrusion conditions

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Chemical

- Melt temperature : 160 180 °C
- Blow-up ratio : 2.5 : 1 (or higher)
- Film thickness range : 25 60 μm

Additive packages

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

(*) 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 MPa 27 / 22 **ASTM D 882** Elongation at Break MD / TD % 270 /580 **ASTM D 882** 1 % Secant Modulus 210 / 250 MD / TD **ASTM D 882** MPa Haze ASTM D 1003 % 6 Gloss (60° angle) ASTM D 2457 % 10 Clarity % 60 ASTM D 1746 Dart Drop Impact (A/Face) ASTM D 1709 2.5 g/µm 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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