



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

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

Additive packages

	Antiblock Antibl	Slip	Stabilizer
	(ppm)	(ppm)	(non BHT)
LD 100 BW		-	+
LD 100 AC	450	500 (*)	+
LD 100 BR	1000	750 (*)	+
(*) Frucamide			1

Typical values

General propertie	s		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 Poir	nt (DSC)		ASTM D 3418	°C	95
Film properties					7
Tensile Strength at	Break M	D / TD	ASTM D 882	MPa	27 / 22
Elongation at Break		D / TD	ASTM D 882	%	270 /580
1 % Secant Modulus		D / 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 Str	rength M	D / 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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