

# ExxonMobil LDPE

## LD 165 series

Blown Film Resins

### Description

The LD 165 series are LDPE grades, offering high strength combined with medium optical properties. Two different additive packages are available according to the surface properties (COF) required.

### Applications

- heavy duty sacks
- shrink film
- shoppers (LD165AC)
- construction film

Additive Package	Antiblock	Slip	Thermal Stabilizer
LD 165BW1	No	No	Yes
LD 165AC	450 ppm	500 ppm	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D1238	0.33 g/10 min	
Density	ASTM D2839 / D1505	0.922 g/cm <sup>3</sup>	
Peak Melting Temperature	ASTM D3418	109 °C	228 °F
Crystallization Point	ASTM D3418	96 °C	205 °F

### Film Properties

Tensile Strength	MD	ASTM D882	23 MPa	3350 psi
	TD		23 MPa	3350 psi
Elongation @ Break	MD	ASTM D882	490 %	
	TD		620 %	
1% Secant Modulus	MD	ASTM D882	240 MPa	35000 psi
	TD		260 MPa	37500 psi
Haze		ASTM D1003	11 %	
Gloss, 60° angle		ASTM D2457	8 %	
Dart Drop Impact, A/Face		ASTM D1709	2.2 g/μm	56 g/mil
Elmendorf Tear Strength	MD	ASTM D1922	3.0 g/μm	76 g/mil
	TD		5.0 g/μm	127 g/mil

Film properties have been measured on a 150 μm (5.9 mil) thick blown film of LD 165BW1 (BUR = 1.5)

LD 165 series 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. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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