

ExxonMobil LDPE

LD 165BW1

Blown Film Resin

Description

LD 165BW1 is a LDPE grade, offering high strength combined with medium optical properties.

Applications

- Heavy duty sacks
- Shrink film
- Construction film

Additive Package	Antiblock	Slip	Thermal Stabilizer
LD 165BW1	No	No	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D 1238	0.33 g/10 min	
Density	ExxonMobil Method	0.922 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	109 °C	228 °F

Film Properties (@ thickness 150 μ (5.9 mil))

Tensile Strength at Yield	MD	ASTM D 882	12 MPa	1750 psi
	TD		11 MPa	1600 psi
Tensile Strength at Break	MD	ASTM D 882	24 MPa	3500 psi
	TD		22 MPa	3200 psi
Elongation at Break	MD	ASTM D 882	500 %	
	TD		650 %	
1% Secant Modulus	MD	ASTM D 882	210 MPa	30500 psi
	TD		240 MPa	34000 psi
Haze		ASTM D 1003	11.2 %	
Gloss MD, 45°		ASTM D 2457	54 %	
Dart Drop Impact Strength, F50		ASTM D 1709A	320 g	
Elmendorf Tear Strength	MD	ASTM D 1922	400 g	
	TD		750 g	

The test specimen were prepared on LD 165BW1, 150μm (5.9 mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.5 and temperature profile of 145 – 190°C (293 – 374°F).

LD 165BW1 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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