

ExxonMobil® LD 100.BW

Product Description: LD 100.BW is a LDPE grade, offering a good balance of optical and mechanical properties. Several additive packages are available according to the required surface properties.

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ExxonMobil method

Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
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Mechanical Properties	Metric	English	Comments
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Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
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Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
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Film Elongation at Break, MD	330 %	330 %	ASTM D882
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Film Elongation at Break, TD	550 %	550 %	ASTM D882
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Elmendorf Tear Strength MD	150 g	150 g	ASTM D1922
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Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922
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Dart Drop Test	80.0 g	0.176 lb	ASTM D1709A
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Film Tensile Strength at Break, MD	24.8 MPa	3600 psi	ASTM D882
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Film Tensile Strength at Break, TD	22.1 MPa	3200 psi	ASTM D882
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1% Secant Modulus, MD	207 MPa	30000 psi	ASTM D882
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1% Secant Modulus, TD	228 MPa	33000 psi	ASTM D882
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Thermal Properties	Metric	English	Comments
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Melting Point	<= 110 °C	<= 230 °F	Peak Melting Point; ExxonMobil method
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Optical Properties	Metric	English	Comments
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Haze	6.1 %	6.1 %	ASTM D1003
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Gloss	63 %	63 %	45°; ASTM D2457
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