

ExxonMobil™ LDPE LD 151BW

Low Density Polyethylene Resin

Product Description

LD 151 BW LDPE grades offer an excellent combination of high clarity with high stiffness. Several additive packages are available according to the required surface properties.

General

Additive ▪ Antiblock: No ▪ Slip: No ▪ Thermal Stabilizer: Yes

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.933 g/cm ³	0.933 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Peak Melting Temperature	241 °F	116 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield TD	2500 psi	17 MPa	ASTM D882
Tensile Strength at Break MD	3800 psi	26 MPa	ASTM D882
Tensile Strength at Break TD	3000 psi	21 MPa	ASTM D882
Elongation at Break MD	370 %	370 %	ASTM D882
Elongation at Break TD	610 %	610 %	ASTM D882
Secant Modulus MD - 1% Secant	55000 psi	380 MPa	ASTM D882
Secant Modulus TD - 1% Secant	64000 psi	440 MPa	ASTM D882
Dart Drop Impact	60 g	60 g	ASTM D1709A
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	180 g	180 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	73	73	ASTM D2457
Haze	6.0 %	6.0 %	ASTM D1003

Additional Information

Applications

- toilet tissue
- kitchen paper overwrap
- cast and melt-embossed film
- label film

