

ExxonMobil™ LLDPE LL 1002 Series

Linear Low Density Polyethylene Resin

Product Description

LL 1002 series are butene LLDPE designed for the blown film process, offering high gloss and excellent draw down. Films made from LL1002 resins have very good tensile and toughness properties.

General

Additive	<ul style="list-style-type: none"> LL 1002KW: Antiblock: 3500 ppm; Slip: 1500 ppm; Processing Aid: No; Thermal Stabilizer: Yes LL 1002YB: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes 		
Applications	<ul style="list-style-type: none"> Agricultural Film Bag in Box Blown Film Cast Film Food packaging Form Fill And Seal Packaging Freezer Film Garment Film General Packaging Industrial Packaging Institutional Can Liners Lamination Film Liners Mulch Film Multilayer Packaging Film Packaging Films Personal Care Produce Bags On A Roll Shoppers Trash Can Liners 		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	250 °F	121 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1400 psi	9.4 MPa	ASTM D882
Tensile Strength at Yield TD	1300 psi	8.9 MPa	ASTM D882
Tensile Strength at Break MD	7100 psi	49 MPa	ASTM D882
Tensile Strength at Break TD	4200 psi	29 MPa	ASTM D882
Elongation at Break MD	590 %	590 %	ASTM D882
Elongation at Break TD	800 %	800 %	ASTM D882
Secant Modulus TD - 1% Secant	32000 psi	220 MPa	ASTM D882
Dart Drop Impact	70 g	70 g	ASTM D1709A
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	76	76	ASTM D2457
Haze	4.4 %	4.4 %	ASTM D1003

