

ExxonMobil™ LDPE LD 302.32

Low Density Polyethylene Resin

Product Description

ExxonMobil LD 302 resins are 3.5 wt% vinyl acetate copolymer, high clarity film resins. The combination of comonomer content and low melt index helps produce films which exhibit superior impact strength, good heat sealability, and good low temperature properties.

General

Additive	▪ Antiblock: 2500 ppm	▪ Slip: 500 ppm	▪ Thermal Stabilizer: Yes
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Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.924 g/cm ³	0.924 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Vinyl Acetate Content	3.5 wt%	3.5 wt%	ExxonMobil Method
Peak Melting Temperature	221 °F	105 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	3500 psi	24 MPa	ASTM D882
Tensile Strength at Break TD	3400 psi	23 MPa	ASTM D882
Elongation at Break MD	190 %	190 %	ASTM D882
Elongation at Break TD	580 %	580 %	ASTM D882
Secant Modulus MD - 1% Secant	21000 psi	150 MPa	ASTM D882
Secant Modulus TD - 1% Secant	25000 psi	170 MPa	ASTM D882
Dart Drop Impact	170 g	170 g	ASTM D1709
Elmendorf Tear Strength MD	190 g	190 g	ASTM D1922
Elmendorf Tear Strength TD	110 g	110 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	69	69	ASTM D2457
Haze	6.5 %	6.5 %	ASTM D1003

