

ExxonMobil™ LDPE LD 516.LN

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 516.LN is a medium MI, low density polyethylene resin designed for use in color concentrates and masterbatches. Its flow properties ensure improved processability and uniform dispersion of additives. This resin also offers an outstanding balance of processability and end use performance for injection molding applications.

General

Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Caps ▪ Closures ▪ Compounding	▪ Food Packaging Containers ▪ Houseware Articles ▪ Injection Molding	▪ Masterbatch Base Resin
Form(s)	▪ Pellets		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.919 g/cm ³	0.919 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	9.5 g/10 min	9.5 g/10 min	ASTM D1238
Peak Melting Temperature	228 °F	109 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	185 °F	85 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1700 psi	12 MPa	ASTM D638
Tensile Strength at Break	1200 psi	8.6 MPa	ASTM D638
Elongation at Yield	60 %	60 %	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Flexural Modulus - 1% Secant	33000 psi	230 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	94	94	
Shore D, 15 sec	45	45	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C)	14 ft-lb	20 J	
73°F (23°C)	12 ft-lb	16 J	

