

# ExxonMobil™ LDPE LD 617.LN

## Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LD 617.LN is a high flow, low density polyethylene homopolymer resin designed to provide excellent processability, flexibility and surface appearance. This multipurpose resin is performance engineered for applications such as housewares, overcaps and closures, and concentrates.

### General

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

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.919 g/cm <sup>3</sup>	0.919 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	26 g/10 min	26 g/10 min	ASTM D1238
Peak Melting Temperature	230 °F	110 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	178 °F	81 °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	8.0 MPa	ASTM D638
Elongation at Yield	50 %	50 %	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Modulus - 1% Secant	34000 psi	230 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	96	96	
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)	4.6 ft-lb	6.2 J	
73°F (23°C)	11 ft-lb	16 J	

