

ExxonMobil™ LDPE LD 506.07

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 506.07 resin is a high flow LDPE homopolymer designed to provide good processability. It is suitable for use in making color concentrates and injection molded articles.

General

Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
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	0.921 g/cm ³	0.921 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	33 g/10 min	33 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	194 °F	90 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1900 psi	13 MPa	ASTM D638
Tensile Strength at Break	1400 psi	9.6 MPa	ASTM D638
Elongation at Yield	50 %	50 %	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Flexural Modulus - 1% Secant	35000 psi	240 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	91	91	
Shore D, 15 sec	47	47	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C)	6.3 ft·lb	8.5 J	
73°F (23°C)	12 ft·lb	16 J	

