

ExxonMobil™ LDPE LD 521.LN Molding

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 521.LN is a low density polyethylene resin that is suitable for use in molding, extrusion, compounding and foam applications.

General

Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Foams	▪ Injection Molding	
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)	2.1 g/10 min	2.1 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	187 °F	86 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1700 psi	11 MPa	ASTM D638
Tensile Strength at Break	1500 psi	10 MPa	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Elongation at Break	450 %	450 %	ASTM D638
Flexural Modulus - 1% Secant	30000 psi	210 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	95	95	
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)	16 ft·lb	22 J	
73°F (23°C)	11 ft·lb	15 J	

