

ExxonMobil LDPE LD 503.LP Low Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Product Description: LD 503.LP is a LDPE homopolymer that is suitable for use in molding, extrusion, compounding and foam

applications.Availability: Latin America, North America and South AmericaAdditive: Antiblock: NoSlip: 200 ppm Thermal Stabilizer:

YesApplications: FoamsInjection MoldingInformation provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-503LP-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ExxonMobil method
Melt Flow	2.3 g/10 min @Load 2.16 kg, Temperature 190 °C	2.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Slip Level	200 ppm	200 ppm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84 @Time 15.0 sec	84 @Time 0.00417 hour	ASTM D2240
Hardness, Shore D	45 @Time 15.0 sec	45 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	9.65 MPa	1400 psi	ASTM D638
Tensile Strength, Yield	10.3 MPa	1500 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Elongation at Yield	40 %	40 %	ASTM D638
Flexural Modulus, 1% Secant	214 MPa	31000 psi	ASTM D790
Dart Drop, Total Energy	17.6 J @Temperature 22.8 °C	13.0 ft-lb @Temperature 73.0 °F	ASTM D3763
	25.8 J @Temperature -40.0 °C	19.0 ft-lb @Temperature -40.0 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
Melting Point	<= 230 °C	<= 446 °F	Peak Melting Point; ExxonMobil method

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