

ExxonMobil LDPE LD 516.LN Low Density Polyethylene Resin

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

Material Notes:

Product Description: LD 516.LN is a medium MI, low density polyethylene resin designed for use in color concentrates and masterbatches where its flow properties ensure improved processability and uniform dispersion of additives. This resin can also be used in injection molding applications where it offers an outstanding balance of processability and end use performance. **Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: NoThermal Stabilizer: No **Applications:** CapsClosuresCompoundingFood Packaging ContainersHouseware ArticlesInjection MoldingMasterbatch Base Resin **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-516LN-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ExxonMobil method
Melt Flow	9.5 g/10 min	9.5 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Hardness, Shore D	42	42	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	7.58 MPa	1100 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Elongation at Yield	30 %	30 %	ASTM D638
Flexural Modulus, 1% Secant	234 MPa	34000 psi	ASTM D790
Dart Drop, Total Energy	17.6 J	13.0 ft-lb	ASTM D3763
	@Temperature 22.8 °C	@Temperature 73.0 °F	
	23.0 J	17.0 ft-lb	ASTM D3763
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
			Peak Melting Point; ExxonMobil

Melting Point Thermal Properties	≤ 230 °C Metric	≤ 446 °F English	method Comments
Vicat Softening Point	86.1 °C	187 °F	ASTM D1525

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