

Polimeros Mexicanos Rotolene® Natural Linear Medium Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , MDPE , Linear Medium Density Polyethylene (LMDPE), Rotational Molding

Material Notes:

Hexene Copolymer Linear Medium Density Polyethylene for rotational molding. This resin is fully UV8 stabilized. Available as natural and several colors powder compounds. High quality Polyethylene recommended for general purpose applications. Frequently used for water tanks and small to medium size containers exhibiting very good mechanical properties. When used for inner layers, it provides excellent smooth finish and texture. Natural Resin, which is used as a carrier in color compounds meets all requirements of US food and drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact. Information provided by Polimeros Mexicanos

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeros-Mexicanos-Rotolene-Natural-Linear-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1693
ESCR 10% Igepal®	>= 200 hour	>= 200 hour	ASTM D1693
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	2 in/min; ASTM D638
Tensile Strength, Yield	18.6 MPa	2700 psi	2 in/min; ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	0.689 GPa	100 ksi	1% Secant; ASTM D790
Impact Test	67.8 J @Temperature -40.0 °C	50.0 ft-lb @Temperature -40.0 °F	0.125 in.; ARM STD test

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ASTM D648

Descriptive Properties	Value	Comments
Process	Rotational Molding	

Descriptive Properties	Value	Comments
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