

Polimeros Mexicanos Rotolene® Industrial Black Linear Medium Density Polyethylene

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

Material Notes:

Hexene Copolymer Linear Medium Density Polyethylene grade which is fully UV8 stabilized. High quality Polyethylene compounded in black, formulated for rotational molding applications requiring excellent mechanical and environmental resistance properties. Available as black powder. Applications: High quality Polyethylene recommended for producing industrial tanks, cisterns, agricultural tanks, chemical tanks or for applications requiring excellent chemical resistance, impact strength and ESCR resistance. Molded parts have a smooth surface finish. This product contains mold release internal agents which eliminate the application of mold release products in the mold inner surface. The carrier of this product meets all FDA requirements as specified in 21 CFR 177.1520 and CONEG (as a compound), covering safe use in articles for direct food contact. Information provided by Polimeros Mexicanos

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 900 hour	>= 900 hour	ASTM D1693
ESCR 10% Igepal®	>= 900 hour	>= 900 hour	ASTM D1693
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 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	>= 900 %	>= 900 %	ASTM D638
Elongation at Yield	11 %	11 %	ASTM D638
Flexural Modulus	0.758 GPa	110 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	
Region	Europe/Turkey	Bamberger Polymers Distribution

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