

Polimeros Mexicanos Rotolene® ECO-BLACK Linear Medium Density Polyethylene

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

Material Notes:

MDPE Copolymer with UV8 stabilizer, available as black powder. Recommended for rotomolding. Used for manufacture of septic tanks and garbage bins. Recommended for use in combination with ROTOFOAM BLACK for multi-layer containers. Contains mold release agents.

Meets all FDA 21 CFR 177.1520 and CONEG (as a compound), covering safe use in 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-ECO-BLACK-Linear-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.936 g/cc	0.0338 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 750 hour	>= 750 hour	ASTM D1693
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	11.7 MPa	1700 psi	2 in/min; ASTM D638
Tensile Strength, Yield	21.4 MPa	3100 psi	2 in/min; ASTM D638
Elongation at Break	>= 400 %	>= 400 %	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	0.758 GPa	110 ksi	1% Secant; ASTM D790
Impact Test	47.5 J	35.0 ft-lb	ARM STD test
	@Temperature 22.2 °C	@Temperature 72.0 °F	

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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