

# ROTOLENE® Natural

Linear Medium Density Polyethylene

Polimeros Mexicanos S.A. de C.V.

## Message:

Linear Copolymer Medium Density Polyethylene for rotational molding. This resin is fully UV8 stabilized.

Available as natural and several colors powder compounds.

Applications: 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.

General Information			
Additive	Long-term UV-8 stabilizer		
Features	UV Stabilized		
	Copolymer		
	Compliance of Food Exposure		
	Medium density		
Uses	Container		
	Water tank		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Available colors		
	Natural color		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
10% Igepal	200	hr	ASTM D1693
100% Igepal	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	18.6	MPa	ASTM D638
Fracture	20.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	12	%	ASTM D638
Fracture	> 800	%	ASTM D638

Flexural Modulus - 1% Secant	690	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact (-40°C, 3.18 mm)	67.8	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	60.0	°C	ASTM D648
Additional Information			
Mechanical properties determined on rotomolded plaque 1/8 in (3.175mm)			
NOTE			
1.	50 mm/min		

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