

ROTOLENE® Industrial

Linear Medium Density Polyethylene

Polimeros Mexicanos S.A. de C.V.

Message:

Hexene Copolymer Linear 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 industrial tanks, large cisterns, agricultural tanks, chemical tanks and for applications requiring excellent chemical resistance, impact strength and ESCR resistance. Molded parts exhibit smooth surface finish. 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		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	hexene comonomer		
	Impact resistance, high		
	Good chemical resistance		
	Compliance of Food Exposure		
	Medium density		
Uses	Industrial water tank		
	Agricultural water tank		
	Water tank		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Available colors		
	Natural color		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
10% Igepal	> 1000	hr	ASTM D1693
100% Igepal	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	21.0	MPa	ASTM D638

Fracture	20.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	13	%	ASTM D638
Fracture	> 800	%	ASTM D638
Flexural Modulus - 1% Secant	759	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact (-40°C, 3.18 mm)	74.6	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	65.0	°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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