

ROTOLENE® High Flow

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 is specifically designed for applications requiring excellent processability and aesthetics combined with low warpage and good mechanical properties. It is recommended for intermediate bulk containers, toys, marine parts and indoor consumer articles. Excellent impact strength, stress crack resistance (ESCR) and procesability. 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	Excellent Processability		
	UV Stabilized		
	Low warpage		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	hexene comonomer		
	Impact resistance, high		
	High liquidity		
	Compliance of Food Exposure		
Uses	Medium density		
	Ship application		
	Container		
	Toys		
	Consumer goods application field		
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/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	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 ¹			ASTM D638
Yield	18.0	MPa	ASTM D638
Fracture	20.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	13	%	ASTM D638
Fracture	> 800	%	ASTM D638
Flexural Modulus - 1% Secant	655	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact (-40°C, 3.18 mm)	61.0	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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