

# ROTOLENE HIGH FLOW



## 1. Product Description

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

### Available:

- Pellet and Powder
- Natural resin and color 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 coolers. Excellent impact strength, stress crack resistance (ESCR) and processability.

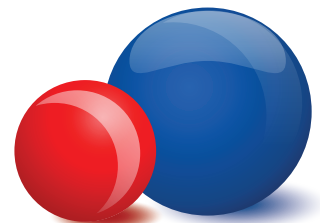
## 2. Typical Characteristics of the Product

TEST	ASTM	UNITS	RESULT
DENSITY	ASTM D1505 Reference MA-01 Own Method	gr/cm <sup>3</sup>	0.935
MELT INDEX @190°C/2.16 kg	ASTM D1238	gr/10 min	7.0
TENSILE STRENGTH AT YIELD @ 50mm/min	ASTM D638 <sup>2</sup>	Psi (MPa)	2670 (18.4)
TENSILE STRENGTH AT BREAK @ 50mm/min	ASTM D638 <sup>2</sup>	Psi (MPa)	3000 (20.70)
FLEXURAL MODULUS 1% Secant	ASTM D790 <sup>2</sup>	Psi (MPa)	87,500 (603)
TENSILE ELONGATION AT YIELD	ASTM D638 <sup>2</sup>	%	13
TENSILE ELONGATION AT BREAK	ASTM D638 <sup>2</sup>	%	> 800
HEAT DEFLECTION @ 66 psi (0.45 Mpa)	ASTM D648 <sup>2</sup>	°C	50.6
E.S.C.R. 100% Igepal E.S.C.R. 10% Igepal	ASTM D1693 <sup>1</sup>	hr	>1,000 >1,000
LOW TEMPERATURE IMPACT @ -40°C	ARM STD <sup>2</sup> 1/8" specimen	ft.b.(J)	45 (61)



1Plaque molded in accordance to ASTM D4976.  
2Rotomolded Plaque 1/8 in. (3.175mm).

The technical information, recommended uses and applications are based on the typical test results of each product. Roto Polymers is not responsible for the use, nor for results based on this information. All users must run their own test to determine their suitability.



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