

ROTOLENE HIGH DENSITY



1. Product Description

Hexene Copolymer High Density Polyethylene for rotational molding. This resin is fully UV12 stabilized.

Available:

- Pellet and Powder
- Natural resin and color compounds

Applications: High quality Polyethylene specifically designed for applications requiring excellent processability and aesthetics combined with low warpage and good mechanical properties. This product is recommended for large agricultural tanks, intermediate bulk containers, portable water containers, chemical tanks and industrial products. Excellent impact strength, stress crack resistance and processability.

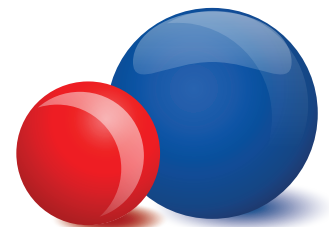
2. Typical Characteristics of the Product

TEST	ASTM	UNITS	RESULT
DENSITY	ASTM D1505 Reference MA-01 Own Method	gr/cm ³	0.942 ± 0.005
MELT INDEX @190°C/2.16 kg	ASTM D1238	gr/10 min	2.0 ± 0.5
TENSILE STRENGTH AT YIELD @ 50mm/min	ASTM D638 ²	Psi (MPa)	3,000 (20.70)
TENSILE STRENGTH AT BREAK @ 50mm/min	ASTM D638 ²	Psi (MPa)	4,500 (31)
FLEXURAL MODULUS 1% Secant	ASTM D790 ²	Psi (MPa)	107,000 (737.23)
TENSILE ELONGATION AT YIELD	ASTM D638 ²	%	13
TENSILE ELONGATION AT BREAK	ASTM D638 ²	%	> 1,000
HEAT DEFLECTION @ 66 psi (0.45 Mpa)	ASTM D648 ²	°C	55.6
E.S.C.R. 100% Igepal E.S.C.R. 10% Igepal	ASTM D1693 ¹	hr	>743 >1,000
LOW TEMPERATURE IMPACT @ -40°C	ARM STD ² 1/8" specimen	ft.lbf(J)	98 (132.43)



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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