

Borealis Borecene™ RM8342 Linear Polyethylene for Rotational Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Rotational Molded

Material Notes:

Borecene RM8342 is a third generation linear medium density natural polyethylene for rotational molding. The narrow molecular weight distribution imparted through metallocene catalyst technology provides an ideal balance of flow and physical properties. Borecene RM8342 is delivered as pellets. Borecene RM8342 is suitable for versatile and high demanding rotational molding of products such as chemical containers (for UN Approval), complex custom parts, and marine applications. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borecene-RM8342-Linear-Polyethylene-for-Rotational-Molding.php

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in ³	ASTM D1505
ESCR 10% Igepal®	>= 300 hour	>= 300 hour	ARM Method
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.9 MPa	2600 psi	At 50 mm/min; ASTM D683 IV
Flexural Modulus	0.490 GPa	71.0 ksi	At 2 mm/min; ASTM D790
Dart Drop Total Energy	210.0 J/cm	0.3934 ft-lb/mil	(-40F/-20°C); ASTM D3763
Dart Drop	152 g/micron	3860 g/mil	Instrumented Falling Weight (-4°F/-20°C); ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	65.0 °C	149 °F	ASTM D648
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

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