

## Borealis Borecene™ RM7402 Linear Polyethylene for Rotational Molding

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

### Material Notes:

Borecene RM7402 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. Lower MFR enhances melt strength making the grade level for foaming and large/thick walled applications. Borecene RM7402 is delivered as pellets. Borecene RM7402 is suitable for rotational molding of products for outdoor and underground applications such as large, thick walls, foaming applications, and parts for pipe systems and underground applications. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borecene-RM7402-Linear-Polyethylene-for-Rotational-Molding.php](http://www.lookpolymers.com/polymer_Borealis-Borecene-RM7402-Linear-Polyethylene-for-Rotational-Molding.php)

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	ASTM D1505
ESCR 10% Igepal®	>= 250 hour	>= 250 hour	ARM Method
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.1 MPa	3200 psi	At 50 mm/min; ASTM D683 IV
Flexural Modulus	0.641 GPa	93.0 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)	72.0 °C	162 °F	ASTM D648
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

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