

## Borealis Borecene™ RM8402 Linear Polyethylene for Rotational Molding

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

### Material Notes:

Borecene RM8402 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. Flow and high stiffness make the grade particularly suitable for demanding underground applications. Borecene RM8402 is delivered as pellets. Borecene RM8402 is suitable for rotational molding of products such as tanks for sewerage water and septic purposes, tanks for agricultural purposes, and potable water tanks and underground applications. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borecene-RM8402-Linear-Polyethylene-for-Rotational-Molding.php](http://www.lookpolymers.com/polymer_Borealis-Borecene-RM8402-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®	>= 120 hour	>= 120 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	21.0 MPa	3050 psi	At 50 mm/min; ASTM D683 IV
Flexural Modulus	0.621 GPa	90.0 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)	70.0 °C	158 °F	ASTM D648
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

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