

Borealis Borecene Compact™ RM8346 Black Linear Polyethylene for Rotational Molding

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

Material Notes:

Borecene Compact RM8346 is a third generation linear medium density black polyethylene for rotational molding. The narrow molecular weight imparted through metallocene catalyst technology provides an ideal balance of flow and physical properties. Borecene Compact RM8346 is a black version of Borecene RM8343, suitable for diesel fuel tanks. Borecene Compact RM8346 is delivered as new technology powder. Borecene Compact RM8346 contains 1.0% Carbon Black, which is compounded into the polymer. In addition the grade contains an UV stabilizer which gives excellent UV-stability. The polymer contains long-term antioxidant. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borecene-Compact-RM8346-Black-Linear-Polyethylene-for-Rotational-Molding.php

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in ³	Base Resin; ASTM D1505
ESCR 10% Igepal®	>= 200 hour	>= 200 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	19.3 MPa	2800 psi	At 50 mm/min; ASTM D683 IV
Flexural Modulus	0.558 GPa	81.0 ksi	At 2 mm/min; ASTM D790
Dart Drop Total Energy	200.0 J/cm	0.3746 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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