

Borealis Borecene™ RM8343PL Linear Polyethylene for Rotational Molding

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

Material Notes:

Borecene RM8343PL is plasma treated linear medium density natural polyethylene for rotational molding with improved adhesion properties. The material is plasma treated to change the chemical structure of the powder's surface to become polar and hydrophilic. Borecene RM8343PL is delivered as powder. Borecene RM8343PL is designed for applications requiring painting, coating, or adhesion textures such as automotive articles, articles with high demand on surface finish, and PU foamed articles. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borecene-RM8343PL-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®	>= 4.0 hour	>= 4.0 hour	Ranked from 1 to 5 with 5 being the best; ASTM D1693
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
Hardness, Shore D	55	55	ASTM D 2240
Tensile Strength, Yield	18.0 MPa	2610 psi	At 50 mm/min; ASTM D6883 IV
Elongation at Yield	13 %	13 %	At 50 mm/min; ASTM D6883 IV
Tensile Modulus	0.550 GPa	79.8 ksi	ASTM D6883 IV
Flexural Modulus	0.600 GPa	87.0 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	142 g/micron	3610 g/mil	Instrumented Falling Weight (-4°F/-20°C); ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	ASTM D648
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

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