

Borealis Borstar® MB7542 High Density Polyethylene for Injection Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

Borstar MB7541 is a bimodal, natural, high density polyethylene produced by the Borstar PE technology. Borstar MB7541 combines excellent organoleptic properties, Environmental Stress Crack Resistance (ESCR) and superior flow properties as well as good impact strength and toughness even at low temperatures. The grade is designated for the caps and closure market and contains lubricants for optimum opening torque of the cap. Excellent processability, also at low melt temperature, allows energy savings and faster cycle time. Borstar MB7541 is designed for injection and compression molding. Borstar ME7542 is recommended for products requiring good environmental stress crack resistance and/or organoleptic properties and impact strength. Typical applications are caps and closures for beverages, food and industrial packaging. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-MB7542-High-Density-Polyethylene-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ISO 1183
ESCR 10% Igepal®	>= 40 hour	>= 40 hour	ASTM D1693
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	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ISO 868
Tensile Strength, Yield	22.0 MPa	3190 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	At 50 mm/min; ISO 527-2
Tensile Modulus	0.850 GPa	123 ksi	At 1 mm/min; ISO 527-2
Tensile Impact Strength	80.0 kJ/m ²	38.1 ft-lb/in ²	At 23°C; ISO 8256/A1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 250 °C	374 - 482 °F	

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