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Borealis BorPURE™ MB6561

BorPure™ MB6561 is a bimodal, high-density polyethylene intended for injection and compression molding. This grade combines excellent organoleptic properties, environmental stress crack resistance and superior flow properties with good impact strength even at low temperatures. Applications: caps and closures for beverage food and industrial packaging, transport packaging, consumer and industrial articles for demanding environment.

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in³	ISO 1183
ESCR 10% Igepal®	180 hour	180 hour	F50; ASTM D1693-A
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	1.5 g/10 min @Load 2.16 kg, Temperature 190 °C	1.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	50mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Tensile Modulus	0.900 GPa	131 ksi	1mm/min; ISO 527-2

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 250 °C	374 - 482 °F	
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	

Descriptive Properties		
Full Notch Creep-Test (hours)	13	6 MPa, 50°C, Arcopal N110 2%, ISO/DIS 16700-2000
Injection Velocity	highest possible	