BorPure™ MB7541

High Density Polyethylene

Borealis AG

Message:

BorPure MB7541 is a bimodal, high-density polyethylene intended for injection and compression moulding. This grade combines excellent organoleptic properties, environmental stress crack resistance and superior flow properties with good impact strength even at low temperatures. The improved processability, even at low melt temperature, allows energy savings and faster cycle time.

General Information	
Features	Fast Molding Cycle
	Good Flow
	Good Impact Resistance
	Good Organoleptic Properties
	Good Processability
	High ESCR (Stress Crack Resist.)
	Low Temperature Impact Resistance
	Recyclable Material
Uses	Caps
	Closures
	Consumer Applications
	Food Packaging
	Industrial Applications
	Packaging
Processing Method	Compression Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal, F50)	40.0	hr	ASTM D1693B
FNCT [1] (50°C)	1.3	day	ISO 16700
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	61		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	850	MPa	ISO 527-2/1
Tensile Stress (Yield)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	%	ISO 527-2/50

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (23°C)	80.0	kJ/m^2	ISO 8256/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	190 to 250	°C	
Mold Temperature	10.0 to 40.0	°C	
Injection Rate	Fast		
NOTE			
1.	3.5 MPa, Arcopal N110 2%		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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