Borstar® MB9641

High Density Polyethylene

Borealis AG

Message:

Borstar® MB9641 is a high-density polyethylene with a narrow molecular weight distribution. The grade has good flow properties. This grade is designed for the injection moulding of articles which require good rigidity and high impact strength, even at very low temperatures.
APPLICATIONS
Boxes - Crates
SPECIAL FEATURES
High Stiffness
Good impact strength
Good flow behavior

General Information			
Features	Rigidity, high High density Impact resistance, high Recyclable materials Good liquidity Low temperature impact resistance Narrow molecular weight distribution		
Uses	Loading box		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.964	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage [1]	1.0 - 2.0	%	ISO 294-4
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	63		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	1200	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	18	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m²	ISO 179/1eA
23°C	7.0	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [2] (0.45 MPa, Unannealed)	77.0	°C	ISO 75-2/B
Injection	**Nominal Value**	**Unit**	

Processing (Melt) Temp	210 - 275	°C
Mold Temperature	10.0 - 40.0	°C
Injection Rate	Fast	

Injection instructions
Holding pressure: As low as possible. Minimum to avoid sink marks.

NOTE	
1.	Depending on wall thickness and moulding parameters
2.	Measured on injection moulded specimens acc. to ISO 1873-2

Recommended distributors for this material

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