

Borealis PE MG9647B

High Density Polyethylene

Borealis AG

Message:

MG9647B is a natural high-density polyethylene with a narrow molecular weight distribution, which is produced in a low-pressure gas-phase process. This grade is designed for the injection moulding of articles which require good rigidity, good flow properties and high impact strength. It also contains UV-stabilizer, which makes this grade especially suited for outdoor applications.

General Information			
Additive	UV stabilizer		
Features	Rigidity, high		
	Impact resistance, good		
	Good UV resistance		
	Good liquidity		
	Narrow molecular weight distribution		
Uses	Outdoor application		
	Loading box		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.964	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage	1.0 - 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	1200	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	8.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	ISO 179/1eA
23°C	7.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹ (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		
NOTE		
1.	Injection molded specimen	

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