

Borealis PE MG9647S

High Density Polyethylene

Borealis AG

Message:

MG9647S 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		
	High density		
	Impact resistance, high		
	Good UV resistance		
	Recyclable materials		
	High liquidity		
	Narrow molecular weight distribution		
Uses	Packaging		
	Outdoor application		
	Loading box		
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	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	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 (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 Temperature: As low as possible

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Recommended distributors for this material

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