

Borealis PP HG430MO

Polypropylene Homopolymer

Borealis AG

Message:

HG430MO is a polypropylene homopolymer intended for injection moulding. This polymer product is characterized by a superior impact resistance. This grade has ductile failure in falling weight impact test at room temperature. This product is characterized by excellent flow properties combined with a narrow molecular weight distribution well suited for low distortion products. This grade contains anti-static and slip additives, which result in short cycle time, good demoulding and low dust attraction.

General Information			
Additive	Antistatic		
	Slip		
Features	Antistatic		
	Fast Molding Cycle		
	Good Mold Release		
	High Flow		
	High Impact Resistance		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Slip		
Uses	Caps		
	Closures		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	11	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Multi-Axial Instrumented Impact Energy (Total Penetration Energy)	40.0	J	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹ (0.45 MPa, Unannealed)	93.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	10.0 to 30.0	°C	
Injection Rate	Fast		
Holding Pressure	20.0 to 50.0	MPa	
NOTE			
1.	Injection molded specimen		

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