

Borealis PP BH381MO

Polypropylene Copolymer

Borealis AG

Message:

BH381MO is a heterophasic copolymer. This product is characterized by an optimum combination of very high stiffness and high impact strength. This grade uses Borealis Nucleation Technology (BNT) to increase productivity by cycle time reduction. BNT in combination with excellent stiffness and good flow properties creates a high potential for wall-thickness reduction. Products originating from this grade have very good demoulding properties, well-balanced mechanical properties, excellent dimension consistency with respect to different colors and good organoleptic properties.

CAS-No. 9010-79-1

General Information			
Features	Copolymer		
	Good Flow		
	Good Impact Resistance		
	Good Organoleptic Properties		
	Good Stiffness		
	Recyclable Material		
Uses	Crates		
	Household Goods		
	Pails		
	Thin-walled Packaging		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (50.0 mm)	1700	MPa	ISO 527-2
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.5	kJ/m ²	
23°C	6.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	105	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 280	°C	

Mold Temperature	10.0 to 30.0	°C
Holding Pressure	20.0 to 50.0	MPa

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