

Borealis PP RB361

Polypropylene

Borealis AG

Message:

RB361 is a 20% mineral filled polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Rigid, good		
	Recyclable materials		
	Excellent appearance		
Uses	Electrical appliances		
	Household goods		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Flexural Modulus ¹	2700	MPa	ISO 178
Flexural Stress	46.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	3.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	130	°C	ISO 75-2/Be
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flammability (1.00 mm)	100	mm/min	ISO 3795
Injection	Nominal Value	Unit	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			

Feeding Temperature: 40 - 80 °C
Mass Temperature: 220 - 260 °C
Back Pressure: Low to Medium
Screw Speed: Low to Medium
Flow Front Speed: 100 - 200 mm/s

NOTE

1. 2.0 mm/min

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