

Borealis PP MB350WG

Polypropylene

Borealis AG

Message:

MB350WG is a 30% mineral filled polypropylene compound intended for injection moulding.

This material has a very high impact strength while maintaining good stiffness and is easy to process.

General Information			
UL YellowCard	E108112-218648		
Filler / Reinforcement	Mineral filler, 30% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Rigidity, high		
	Impact resistance, good		
	Workability, good		
	Detergent resistance		
	Thermal Stability		
Uses	Machine/mechanical parts		
	Home appliance components		
UL File Number	E108112		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	2.5	g/10 min	ISO 1133
230°C/5.0 kg	11	g/10 min	ISO 1133
Molding Shrinkage	0.90	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	71.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2950	MPa	ISO 527-2/1
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.4	%	ISO 527-2/50
Flexural Modulus ¹	3100	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	1.5	kJ/m ²	ISO 179/1eA
23°C	4.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	17	kJ/m ²	ISO 179/1eU
23°C	55	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	122	°C	ISO 75-2/B
1.8 MPa, not annealed	68.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	83.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Hopper Temperature	40.0 - 80.0	°C	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Back pressure: Low to mediumScrew speed: Low to mediumFlow front speed: 100 - 200 mm/s			
NOTE			
1.	2.0 mm/min		

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