

Borealis PP BJ100HP

Polypropylene Copolymer

Borealis AG

Message:

BJ100HP is a special low viscosity polypropylene compound developed to fit the production of PP-GF composites in the direct LFT compression and injection moulding process as well as in combination with LGF concentrates on the injection moulding process. The product is available in natural colour. BJ100HP is equipped with an additive package for optimum coupling between polymer matrix and glass fibres. The interaction leads to optimum stiffness and impact strength of the components.

General Information			
Additive	heat stabilizer		
Features	Low viscosity		
	Rigidity, high		
	Copolymer		
	Chemical coupling		
	Impact resistance, high		
Uses	Thermal Stability		
	Mixing		
	Parts under the hood of a car		
	Application in Automobile Field		
	Automotive exterior parts		
Appearance	Car dashboard		
	Natural color		
	Particle		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.904	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	90	g/10 min	ISO 1133
Molding Shrinkage	1.7	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1300	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	25.0	MPa	ISO 527-2/50
Flexural Modulus ¹ (Injection Molded)	1250	MPa	ISO 178
Flexural Stress (Injection Molded)	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	2.0	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	41	kJ/m ²	ISO 179/1eU
23°C, injection molding	75	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C, injection molding	2.5	kJ/m ²	ISO 180/1A
23°C, injection molding	3.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	90.0	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A
--	72.0	°C	ISO 306/B
Melt Energy	105	kJ/kg	ISO 11357
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	3.00 - 6.00	MPa	
Injection instructions			
Feeding Temperature: 40 to 80°C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 - 200 m/min			
NOTE			
1.	2.0 mm/min		

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