

Borealis PP NJ201AI

Polypropylene

Borealis AG

Message:

NJ201AI is a 20% natural fibre filled polypropylene compound intended for injection moulding.
This material has an excellent stiffness and gives a good surface quality.

General Information			
Filler / Reinforcement	Mineral filler		
Features	Rigid, good		
	Gloss, Medium		
	Recyclable materials		
	Scratch resistance		
	Excellent appearance		
Uses	Application in Automobile Field		
	Car interior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.975	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	23	g/10 min	ISO 1133
Molding Shrinkage	1.2	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	88.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	2250	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	2150	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	22	kJ/m ²	ISO 179/1eU
23°C	32	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	126	°C	ISO 75-2/B
1.8 MPa, not annealed	63.0	°C	ISO 75-2/A
Vicat Softening Temperature			

--	158	°C	ISO 306/A
--	94.0	°C	ISO 306/B
Additional Information	Nominal Value	Unit	Test Method
Emission		µgC/g	VDA 277
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: 170 - 180 °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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