



**Polypropylene**

**Borstar™ NJ200AI**

Natural Fibre Modified Polypropylene

### Description

**Borstar NJ200AI** is a 20% natural fibre filled polypropylene compound intended for injection moulding.

This material has an excellent stiffness and gives a good surface quality.

### Applications

**Borstar NJ200AI** has been developed especially for the car industry to be used in automotive interior parts.

### Special Features

Sustainable, renewable and European sourced Filler  
Balancing cost, weight, performance and sustainability

Excellent gloss and scratch  
Light weight

### Physical Properties

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

| Property                                       | Typical Value         | Test Method |
|------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work |                       |             |
| Density                                        | 975 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                | 18 g/10min            | ISO 1133    |
| Flexural Modulus (2 mm/min)                    | 2.500 MPa             | ISO 178     |
| Tensile Strength (50 mm/min)                   | 33 MPa                | ISO 527-2   |
| Heat Deflection Temperature B (0,45 MPa)       | 136 °C                | ISO 75-2    |
| Charpy Impact Strength, notched (23 °C)        | 23 kJ/m <sup>2</sup>  | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C)       | 14 kJ/m <sup>2</sup>  | ISO 179/1eA |

### Application Related and Other Tests

| Property                                       | Typical Value | Test Method |
|------------------------------------------------|---------------|-------------|
| Data should not be used for specification work |               |             |
| Fogging (100 °C,16 h)                          | < 2 mg        | DIN 75201   |
| Emission                                       | < 50 µgC/g    | VDA 277     |

### Processing Techniques

The actual conditions will depend on the type of equipment used.

This product is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. Following parameters should be used as guidelines:

|                     |              |
|---------------------|--------------|
| Feeding temperature | 40 - 80 °C   |
| Mass temperature    | 170 - 180 °C |

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# Borstar NJ200AI

Back pressure  
Holding pressure  
Mould temperature  
Screw speed  
Flow front speed

Low to medium  
30 - 60 bar  
30 - 50 °C  
Low to medium  
100 - 200 mm/s

## Storage

**Borstar NJ200AI** should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

## Safety

The product is not classified as dangerous.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.

## Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

## Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

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