

**Polypropylene****BE677AI**

Polypropylene Copolymer

**Description****BE677AI** is a polypropylene copolymer intended for injection moulding.

This material has an excellent balance between impact strength and stiffness and gives a good surface quality.

**Applications****BE677AI** has been developed especially for applications like:

Pillar trims

Door panels and pockets

**Special Features**

UV stabilised

**Physical Properties**

| Property                                       | Typical Value         | Test Method |
|------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work |                       |             |
| Density                                        | 905 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                | 14 g/10min            | ISO 1133    |
| Flexural Modulus (2 mm/min)                    | 1.450 MPa             | ISO 178     |
| Tensile Strength (50 mm/min)                   | 26 MPa                | ISO 527-2   |
| Heat Deflection Temperature B (0,45 MPa)       | 100 °C                | ISO 75-2    |
| Charpy Impact Strength, notched (23 °C)        | 8 kJ/m <sup>2</sup>   | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C)       | 4 kJ/m <sup>2</sup>   | ISO 179/1eA |

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

**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     |

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## Processing Techniques

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

### Injection Moulding

BE677AI is easy to process with standard injection moulding machines. Following moulding parameters should be used as guidelines:

|                     |                |
|---------------------|----------------|
| Feeding temperature | 40 - 80 °C     |
| Mass temperature    | 220 - 260 °C   |
| Back pressure       | Low to medium  |
| Holding pressure    | 30 - 60 MPa    |
| Mould temperature   | 30 - 50 °C     |
| Screw speed         | Low to medium  |
| Flow front speed    | 100 - 200 mm/s |

### Storage

BE677AI should be stored in dry conditions at temperatures below 50°C and protected from UV-light. To avoid degradation storage time should not be longer than 2 months if temperature exceeds 35°C.

### 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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