# PRODUCT DATA SHEET

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## Polypropylene

# BE677AI

### Polypropylene Heterophasic Copolymer

## Description

BE677AI is a polypropylene copolymer intended for injection moulding.
This material combines good mechanical properties, high surface quality and low density.

## Typical characteristics

BE677AI can be described with following typical characteristics:

| | |
|---|---|
| UV stabilised | Low volatiles |
| High crystallinity | Easy processing |

## Applications

BE677AI is intended for following applications:

| | |
|---|---|
| Automotive interior applications | Interior trims |
| Pillar trims | |

## Physical properties

| Property | Typical value * | Unit | Test method |
|---|---|---|---|
| Density | 905 | kg/m³ | ISO 1183-1 |
| Melt flow rate (230 °C/2.16 kg) | 14 | g/10min | ISO 1133-1 |
| Flexural modulus (2 mm/min) | 1450 | 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/m² | ISO 179-1/1eA |
| Charpy impact strength, notched (-20 °C) | 4 | kJ/m² | ISO 179-1/1eA |

* Data should not be used for specification work

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

## Other properties

| Property | Typical value * | Unit | Test method |
|---|---|---|---|
| Fogging (100 °C,16 h) | <1.5 | mg | DIN 75201 |
| Total emission (headspace) | <40 | µg C/g | VDA 277 |

* Data should not be used for specification work

## Processing techniques

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

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| Processing setting | Typical value/range |
|---|---|
| Feeding temperature | 40 - 80 °C |
| Mass temperature | 210 - 250 °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 |

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

## Packaging and 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.

## Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

## Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency. Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

## Regional Availability

Europe

North America: grade available under the name BE677AIU

South America: grade available under the name BE677AIB

For information on regional availability please contact Borealis Sales Representative.

### Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.
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Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com



Manufacturer website: https://www.borealisgroup.com/