

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/m ³	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/m ²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	4	kJ/m ²	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

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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.

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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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