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

High crystallinity

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	905 kg/m³	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/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4 kJ/m²	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 Data should not be used for specification work	Test Method
Fogging (100 °C,16 h)	< 1,5 mg	DIN 75201
Emission	< 40 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
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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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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