

## Polypropylene

# BHC6030

### Polypropylene Copolymer

#### Description

**BHC6030** is a polypropylene copolymer intended for injection moulding, extrusion and blow moulding. This material has a very high impact strength while maintaining good stiffness and is easy to process.

#### Applications

**BHC6030** has been developed especially for demanding applications in under the bonnet applications.

Heater housings

Break fluid reservoirs

#### Special Features

The product is available in black.

#### 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)	0,55 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.250 MPa	ISO 178
Tensile Strength (50 mm/min)	28 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	84 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	42 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6,0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	2,0 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.

#### Processing Techniques

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

##### Injection Moulding

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 moulding parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Holding pressure	30 - 60 bar
Back pressure	Low to medium
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 m/min

#### Storage

**BHC6030** 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.

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### 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.

#### Issuer:

Marketing Automotive / Daniel Bahls  
Product Management / Michael Otte

#### 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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