# PRODUCT DATA SHEET

28.12.2021 Ed. 5

# 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<br>Data should not be used for specification work | Test Method |
|---|---|---|
| Density | 905 kg/m³ | 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/m² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 6,0 kJ/m² | ISO 179/1eA |
| Charpy Impact Strength, notched (-30 °C) | 2,0 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.

## 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.

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com



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

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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.**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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**It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.**

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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