PRODUCT DATA SHEET

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Polypropylene
BHC5012C
Polypropylene Copolymer

Description
BHC5012C is a polypropylene copolymer intended for injection moulding, extrusion and blow moulding.
This material has excellent balanced mechanical properties and is easy to process.

Applications
BHC5012C has been developed especially for applications like:

Heater housings

Break fluid reservoirs

Special Features
Copper (Cu) stabilised

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)	0,3 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.200 MPa	ISO 178
Tensile Strain at Yield	15 %	ISO 527-2
Tensile Strength (50 mm/min)	27 MPa	ISO 527-2
Charpy Impact Strength, notched (23 °C)	80 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4,5 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	3 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
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
BHC5012C 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 / Thomas Papesch

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.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

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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