Polypropylene
BG383MO

Description
BG383MO is a polypropylene copolymer intended for injection moulding.This grade is characterized by optimum combination of high impact strength and stiffness.

This grade uses Borealis Nucleation Technology (BNT) to increase productivity by cycle time reduction. BNT in combination with excellent stiffness and good flow properties creates a high potential for wall-thickness reduction. Products moulded with this grade exhibit excellent antistatic performance and very good mould release. As with all BNT grades, products exhibit excellent dimensional consistency with different colorants.

CAS-No. 9010-79-1

Applications

Thin wall packaging
Pails

Special features

Good stiffness
Good impact strength

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)	33 g/10min	ISO 1133
Flexural Modulus	1.300 MPa	ISO 178
Tensile Modulus (50 mm/min)	1.400 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	5,5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	95 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	7 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4 kJ/m²	ISO 179/1eA

Processing Techniques
This product is easy to process with standard injection moulding machines. Following moulding parameters should be used as guidelines:

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Melt temperature	210 - 260 °C
Mould temperature	10 - 30 °C
Injection speed	High

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Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

Storage
BG383MO 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.

Safety
The product is not classified as dangerous. Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal 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.

Related Documents
The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

"Safety data sheet" / "Product safety information sheet"
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations
Recovery and disposal of polyolefins
Information on emissions from processing and fires

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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.

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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