PRODUCT DATA SHEET

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Polypropylene
BC545MO
Polypropylene Copolymer

Description

BC545MO is a low-blush polypropylene heterophasic copolymer. This grade features high impact strength, high thermal stability and very good processability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances. This grade is characterized by combination of high stiffness, very high impact strength, low stress whitening and good electrical properties.
This grade is mildly nucleated to maximize the stiffness-impact balance. The additive formulation provides long-term heat stability. Its very good organoleptic properties allows this grade to be used with any masterbatch without discoloring problems.

Applications

Suitcases
Battery cases
Crates and boxes
Technical parts
Communication cables (UL 444)

Special Features

Good processability
Good melt stability
Very good stress crack resistance
Very good chemical resistance
High stiffness
High impact strength
Good conductor adhesion
Dielectric properties

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	908 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	3,5 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.200 MPa	ISO 178
Tensile Strength (50 mm/min)	25 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa) [1]	90 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	15 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6 kJ/m²	ISO 179/1eA

[1] Measured on injection moulded specimens acc. to ISO 1873-2

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

Processing Techniques

This product is easy to process with standard injection moulding machines.

Following moulding parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	230 - 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 mm/s

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Storage
BC545MO 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
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 products are suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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Regional Availability
Europe
South America: grade available under the name BC545MOB
For information on regional availability please contact Borealis Sales Representative.

Issuer:
Marketing Automotive / Daniel Bahls
Product Management / Ramesh Selvasankar

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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