PRODUCT DATA SHEET

Polypropylene
BB125MO

Description

BB125MO is a heterophasic copolymer. This grade is a low melt flow rate grade intended for blow moulding and sheet extrusion, and features extremely good processability with improved melt strength and melt stability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances.

This polymer is one of the IMP (improved mechanical stability) grades, and is characterized by very high stiffness without any loss of impact strength even at low temperatures.

CAS-No. 9010-79-1

Applications

Corrugated boards

Industrial chemicals

Special Features

Good melt strength
Good melt stability
Excellent stress crack resistance

Very high stiffness
High 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)	1,3 g/10min	ISO 1133
Melt Flow Rate (190 °C/5,0 kg)	2,3 g/10min	ISO 1133
Melt Flow Rate (230 °C/5,0 kg)	6,0 g/10min	ISO 1133
Flexural Modulus	1.200 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.300 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	85 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	50 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	7 kJ/m²	ISO 179/1eA

Processing Techniques

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

BB125MO is easy to extrude and can be used in all conventional blow-moulding machines

Barrel	190 - 220 °C
Die	180 - 220 °C
Melt temperature	180 - 220 °C

BOREALIS

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Storage
BB125MO 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.

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 safety, recovery and disposal of the product. For more information, contact your Borealis representative.

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"
Recovery and disposal of polyolefins
Information on emissions from processing and fires
Statement on compliance to food contact regulations
Statement on BSE / TSE