



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	Test Method
	Data should not be used for specification work	
Density	905 kg/m ³	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 (50 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/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	7 kJ/m ²	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 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



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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 polymer additives and BSE



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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.

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