PRODUCT DATA SHEET

Polypropylene

BB125MO

Polypropylene for Blow Moulding

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

Typical characteristics

BB125MO can be described with following typical characteristics:

Good melt strength
Good melt stability
Excellent stress crack resistance
Very high stiffness
High impact strength

Applications

BB125MO is intended for following applications:

Corrugated boards
Industrial applications

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	1.3	g/10min	ISO 1133-1
Flexural modulus	1200	MPa	ISO 178
Melt flow rate (190 °C/5 kg)	2.3	g/10min	ISO 1133-1
Charpy impact strength, notched (23 °C)	50	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	7	kJ/m²	ISO 179-1/1eA
Tensile modulus (1 mm/min)	1300	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 B (0.45 MPa)	85	°C	ISO 75-2

* Data should not be used for specification work

Processing techniques

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

Processing setting	Typical value/range
Barrel	190 - 220 °C
Die	180 - 220 °C
Melt temperature	180 - 220 °C

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

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BB125MO

Packaging and storage

BB125MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency. Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

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