



Polypropylene BH980MO

Description

BH980MO is a heterophasic copolymer. This grade provides very high stiffness, high gloss and low stress whitening, and is designed for high-speed injection moulding and contains nucleating and antistatic/demoulding additives.

Components moulded from this grade have excellent demoulding properties, high stiffness and gloss, good impact strength and low taste and odour.

Applications

Containers and products with medium to long flow length
Closures
House ware and packaging requiring high stiffness and good impact

Articles with integral hinges and demands for high gloss
Products with thicker wall sections requiring short cycle time

Special features

High gloss
High stiffness

High impact strength
Low taste & odour

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	910 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	45 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.750 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	6 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	34 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm ²) ¹	116 °C	ISO 75-2
Instrumented Falling Weight (0 °C)	Max Force	ISO 6603-2
	Total Penetration Energy	10 J
Instrumented Falling Weight (-20 °C)	Max Force	ISO 6603-2
	Total Penetration Energy	10 J
Charpy Impact Strength, notched (23 °C)	4 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	2,5 kJ/m ²	ISO 179/1eA
Hardness, Rockwell (R-scale)	100	ISO 2039-2

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

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	220 - 260 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	20 - 50 °C	
Injection speed	High	

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

Storage

BH980MO 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 a dangerous preparation.

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



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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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