



# Polypropylene BH345MO

## Polypropylene Heterophasic Copolymer for Injection Moulding

### Description

**BH345MO** is a high melt flow heterophasic copolymer (block copolymer) with high impact strength and stiffness. **BH345MO** has additive formulation containing antistatic and nucleating agents allowing fast cycle time even on products with high flow length/narrow wall thickness ratios.

Products moulded from **BH345MO** shows good ejectability and combine very good low temperature, impact strength with good stiffness, good gloss, good antistatic- and excellent organoleptic properties.

### Applications

**BH345MO** is specially designed for fast production of thin wall food packaging containers requiring good low temperature impact properties.

Main application areas are:

- Thin wall containers, pails.
- Frozen food packaging.
- Closures.
- Housewares
- Technical parts

### Physical Properties\*\*

		Typical Value*	Unit	Test Method
Density		904	kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate	(230°C/2.16kg)	45	g/10 min	ISO 1133
Tensile Stress at Yield	(50 mm/min)	26	MPa	ISO 527-2
Tensile Strain at Yield	(50 mm/min)	5	%	ISO 527-2
Tensile Modulus	(1 mm/min)	1400	MPa	ISO 527-2
Charpy Impact Strength, notched	(+23°C)	6.5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched	(-20°C)	4.0	kJ/m <sup>2</sup>	ISO 179/1eA
Hardness, Rockwell		89	R-scale	ISO 2039-2
Heat Deflection Temperature	(0.45 N/mm <sup>2</sup> )	95	°C	ISO 75-2
Instrumented Falling Weight				
Total Penetration Energy	(0°C)	30	J	ISO 6603-2
Total Penetration Energy	(-20°C)	22	J	ISO 6603-2

\* Data should not be used for specification work

\*\* Mechanical properties determined on injection moulded specimens acc. to ISO 1873-2 (97), based on 7 days conditioning time.

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## Processing Guidelines

The grade can be moulded on standard injection moulding machines. Following moulding parameters should be used as guidelines.

Melt temperature	210 – 260°C
Injection speed	Highest possible
Holding pressure	Minimum required to avoid sink marks (typical values are 200 - 500 bars)
Mould temperature	10 – 30°C
Shrinkage	1 - 2%, depending on wall thickness and moulding parameters.

## Storage and Handling

The product 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 the product.

## Safety

**BH345MO** is not classified as dangerous preparation.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.

## 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.

A Safety Data Sheet is available on request. Please contact your Borealis representative for more details on various aspects of safety, recovery and disposal of the product.



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**BH345MO**

### Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product:

Recovery and disposal of Polyolefins  
Information on Emissions from Processing and Fires  
Safety Data Sheet, SDS  
Environmental Fact Sheet

Liability statements on:

- Compliance to Food Contact Regulations

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### Disclaimer

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