PRODUCT DATA SHEET

26.03.2025 Ed.12

Polypropylene

BH345MO

Polypropylene Heterophasic Copolymer

Description

BH345MO is a heterophasic copolymer. This grade is characterized by optimum combination of very high stiffness, good flow properties, and good impact strength. It is designed for high-speed injection moulding and contains nucleating and antistatic/demoulding additives.

Components moulded from this grade show good ejectability and combine excellent stiffness with very good gloss, good antistatic, and excellent organoleptic properties.

Cas No. 9010-79-1

Typical characteristics

BH345MO can be described with following typical characteristics:

Excellent antistatic properties	High stiffness
High impact strength	Good gloss

Applications

BH345MO is intended for following applications:

Caps and closures	Pails
Frozen food packaging	Technical parts
Household applications	Thin wall containers

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	45	g/10min	ISO 1133-1
Flexural modulus	1300	MPa	ISO 178
Tensile modulus (1 mm/min)	1400	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	26	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	5	%	ISO 527-2
Charpy impact strength, notched (23 °C)	6.0	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	3.5	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa) [1]	85	°C	ISO 75-2

* Data should not be used for specification work

[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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Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure [2]	200 - 500 bar
Mould temperature	10 - 30 °C
Injection speed	As high as possible.

[2] *Minimum to avoid sink marks.*

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

Packaging and storage

BH345MO 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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