



Polypropylene BH345MO

Description

BH345MO is a heterophasic copolymer. This grade is characterized by optimum combination of very high stiffness, good flow properties and good impact strength. and 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

Applications

Thin wall containers
Frozen food packaging
Closures

Household applications
Technical parts
Pails

Special features

Excellent antistatic properties
High impact strength

High stiffness
Good gloss

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) | 45 g/10min | ISO 1133 |
| Flexural Modulus | 1.300 MPa | ISO 178 |
| Tensile Modulus (50 mm/min) | 1.400 MPa | ISO 527-2 |
| Tensile Strain at Yield (50 mm/min) | 5 % | ISO 527-2 |
| Tensile Stress at Yield (50 mm/min) | 26 MPa | ISO 527-2 |
| Heat Deflection Temperature (0,45 N/mm ²) ¹ | 85 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 6,0 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 3,5 kJ/m ² | ISO 179/1eA |

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:

| | | |
|-------------------|---------------|------------------------------|
| Melt temperature | 210 - 260 °C | |
| Holding pressure | 200 - 500 bar | Minimum to avoid sink marks. |
| Mould temperature | 10 - 30 °C | |

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168



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Injection speed

As high as possible.

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

Storage

BH345MO 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



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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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