

PRODUCT DATA SHEET

23.02.2016 Ed.1



Polypropylene SH950MO

Description

SH950MO is a random heterophasic copolymer intended for injection moulding. This grade yields high transparency and deep freeze impact resistance combined with excellent flow properties.

The material is nucleated with Borealis Nucleation Technology (BNT). This grade contains antistatic and demoulding additives which, together with enhanced nucleation, create a high potential for cycle time reduction.

Products moulded from this grade have an excellent balance of see-through transparency and deep freeze impact resistance. In addition, components have good gloss, very low stress whitening and excellent taste and odour properties. BNT in combination with excellent stiffness and good flow properties creates a high potential for wall-thickness reduction.

CAS-No. 9010-79-1
9002-88-4

Applications

Ice cream containers
Crates
Deep freeze boxes for food storage

Bread boxes, crates
Flip top caps, high gloss closures

Special Features

Good flow
Good impact strength

Improved gloss and excellent transparency
Very low influence on taste & odour

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)	40 g/10min	ISO 1133
Flexural Modulus	950 MPa	ISO 178
Tensile Modulus (50 mm/min)	1.050 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	10 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	20 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa) ¹	75 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	8 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	3 kJ/m ²	ISO 179/1eA

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

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com



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SH950MO**Processing Techniques**

This product is easy to process with standard injection moulding machines.

Following moulding parameters should be used as guidelines:

Melt temperature	200 - 250 °C
Holding pressure	200 - 500 bar
Mould temperature	15 - 40 °C
Injection speed	High

Minimum to avoid sink marks.

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

Storage

SH950MO 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

Statement on polymer additives and BSE

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SH950MO**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.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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