PRODUCT DATA SHEET

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 Data should not be used for specification work	Test Method
Density	905 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	40 g/10min	ISO 1133
Flexural Modulus	950 MPa	ISO 178
Tensile Modulus (1 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/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	3 kJ/m²	ISO 179/1eA

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

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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	Minimum to avoid sink marks.
Mould temperature	15 - 40 °C	
Injection speed	High	

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 BSE / TSE