



Polypropylene BC142MO

Description

BC142MO is a controlled rheology polypropylene heterophasic copolymer. It is characterized by high impact strength, good stiffness, excellent processability, good flow properties and low warpage.

CAS-No. 9010-79-1

Applications

Crates and boxes
Technical parts

Special features

High impact strength
Very good stiffness

Good processability
Good flow behaviour

Physical Properties

Property	Typical Value	Test Method
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	5 g/10min	ISO 1133
Flexural Modulus	1.050 MPa	ISO 178
Tensile Modulus (50 mm/min)	1.150 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	9,5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm ²)	75 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	9 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4 kJ/m ²	ISO 179/1eA

Processing Techniques

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

Following parameters should be used as guidelines:

Melt temperature	230 - 260 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	10 - 30 °C	
Injection speed	High	

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

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Storage

BC142MO 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.

Recovery and disposal of polyolefins
Information on emissions from processing and fires
"Safety data sheet" / "Product safety information sheet"
Statement on compliance to food contact regulations

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