



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.

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
<small>Data should not be used for specification work</small>		
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	5 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.100 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)	80 °C	ISO 75-2
Instrumented Falling Weight (0 °C)	Max Force	ISO 6603-2
	Total Penetration Energy	30 J
Instrumented Falling Weight (-20 °C)	Max Force	ISO 6603-2
	Total Penetration Energy	32 J
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
Hardness, Rockwell (R-scale)	82	ISO 2039-2

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 a dangerous preparation.

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 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
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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