PRODUCT DATA SHEET

Polypropylene
BD310MO

Description

BD310MO is a heterophasic copolymer. This grade is characterized by an optimum combination of good impact strength and very high stiffness.

This grade is mildly nucleated to maximize the mechanical stiffness. This grade contains antistatic and demoulding additives which, together with enhanced nucleation, create a high potential for cycle time reduction.

CAS-No. 9010-79-1

Applications

General packaging
Technical parts
Crates

Special Features

Good impact strength
High stiffness
Excellent antistatic properties

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)	8 g/10min	ISO 1133
Flexural Modulus	1.300 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.400 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	6 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	28 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm²) [1]	85 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	9 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4 kJ/m²	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	230 - 260 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	10 - 30 °C	
Injection speed	As high as possible.	

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

Storage

BD310MO should be stored in dry conditions at temperatures below 60°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.

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