



Polypropylene DaplenTM BD020AIB

Polypropylene Compound

Description

Daplen BD020AIB is a polypropylene compound intended for injection moulding.

Applications

Crates and boxes

Washing machine parts

Special features

Very good stiffness and impact balance

Excellent surface finish

Physical Properties

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (23 °C)	890 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	6 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.100 MPa	ISO 178
Flexural Strength	30 MPa	ISO 178
Tensile Stress at Yield (50 mm/min) (23 °C)	24 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (0,45 MPa)	80 °C	ISO 75-2
Heat Deflection Temperature Edgewise (1,8 MPa)	50 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	16 kJ/m ²	ISO 179
Charpy Impact Strength, notched (-30 °C)	6 kJ/m ²	ISO 179

Combustion Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Flammability at thickness 1 mm	Max100 mm/min	ISO 3795

Processing Techniques

The actual conditions will depend on the type of equipment used.

Daplen BD020AIB is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. Following moulding parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168



Polypropylene

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Back pressure
Holding pressure
Mould temperature
Screw speed
Flow front speed

Low to medium
30 - 60 MPa
30 - 50 °C
Low to medium
100 - 200 mm/s

Storage

Daplen BD020AIB 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. 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.

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.

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.

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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.

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