

# Borealis PP BD020AIB

Polypropylene

Borealis AG

## Message:

BD020AIB is a polypropylene compound intended for injection moulding.

| General Information                                                                                                                                                    |                           |                   |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------|--------------|
| Features                                                                                                                                                               | Rigid, good               |                   |              |
|                                                                                                                                                                        | Impact resistance, good   |                   |              |
|                                                                                                                                                                        | Recyclable materials      |                   |              |
|                                                                                                                                                                        | Excellent appearance      |                   |              |
| Uses                                                                                                                                                                   | Home appliance components |                   |              |
|                                                                                                                                                                        | Loading box               |                   |              |
| Processing Method                                                                                                                                                      | Injection molding         |                   |              |
| Physical                                                                                                                                                               | Nominal Value             | Unit              | Test Method  |
| Density (23°C)                                                                                                                                                         | 0.890                     | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                                                                                                                              | 6.0                       | g/10 min          | ISO 1133     |
| Mechanical                                                                                                                                                             | Nominal Value             | Unit              | Test Method  |
| Tensile Stress (Yield, 23°C)                                                                                                                                           | 24.0                      | MPa               | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                                                                                                                                          | 1100                      | MPa               | ISO 178      |
| Flexural Stress                                                                                                                                                        | 30.0                      | MPa               | ISO 178      |
| Impact                                                                                                                                                                 | Nominal Value             | Unit              | Test Method  |
| Charpy Notched Impact Strength                                                                                                                                         |                           |                   | ISO 179      |
| -30°C                                                                                                                                                                  | 6.0                       | kJ/m <sup>2</sup> | ISO 179      |
| 23°C                                                                                                                                                                   | 16                        | kJ/m <sup>2</sup> | ISO 179      |
| Thermal                                                                                                                                                                | Nominal Value             | Unit              | Test Method  |
| Heat Deflection Temperature                                                                                                                                            |                           |                   |              |
| 0.45 MPa, not annealed                                                                                                                                                 | 80.0                      | °C                | ISO 75-2/Be  |
| 1.8 MPa, not annealed                                                                                                                                                  | 50.0                      | °C                | ISO 75-2/Ae  |
| Flammability                                                                                                                                                           | Nominal Value             | Unit              | Test Method  |
| Flammability                                                                                                                                                           |                           | mm/min            | ISO 3795     |
| Injection                                                                                                                                                              | Nominal Value             | Unit              |              |
| Mold Temperature                                                                                                                                                       | 30.0 - 50.0               | °C                |              |
| Holding Pressure                                                                                                                                                       | 30.0 - 60.0               | MPa               |              |
| Injection instructions                                                                                                                                                 |                           |                   |              |
| Feeding Temperature: 40 to 80 °C<br>Mass Temperature: 220 to 260 °C<br>Back Pressure: Low to Medium<br>Screw Speed: Low to Medium<br>Flow Front Speed: 100 to 200 mm/s |                           |                   |              |
| NOTE                                                                                                                                                                   |                           |                   |              |

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