



Polypropylene
Daplen™ WN100AI
 Polypropylene Compound, Mineral Filled

Description

Daplen WN100AI is a 10% mineral filled polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness and gives a good surface quality.

Applications

Daplen WN100AI has been developed especially for the car industry to be used in automotive interior parts.

Dashboards
 Pillar trims
 Door panels and pockets

Tailgates
 Other automotive interior parts

Special Features

Excellent scratch resistance
 Low gloss

High purity
 Excellent surface appearance

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 | 940 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 19 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 1.650 MPa | ISO 178 |
| Tensile Strength (50 mm/min) | 20 MPa | ISO 527-2 |
| Heat Deflection Temperature B (0,45 MPa) | 100 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 35 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 6 kJ/m ² | ISO 179/1eA |

Application Related and Other Tests

| Property | Typical Value | Test Method |
|--|---------------|-------------|
| Data should not be used for specification work | | |
| Fogging (100 °C,16 h) | < 2 mg | DIN 75201 |
| Emission | < 50 µgC/g | VDA 277 |

Processing Techniques

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

Injection Moulding

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

| | |
|---------------------|----------------|
| Feeding temperature | 40 - 80 °C |
| Mass temperature | 220 - 260 °C |
| Holding pressure | 30 - 60 bar |
| Back pressure | Low to medium |
| Mould temperature | 30 - 50 °C |
| Screw speed | Low to medium |
| Flow front speed | 100 - 200 mm/s |

Storage

Daplen WN100AI 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 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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

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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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