



Polypropylene

Daplen™ WN100AIU

Polypropylene Compound, Mineral Filled

Description

Daplen WN100AIU 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 WN100AIU 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
Mould average Shrinkage ¹	1,2 %	Borealis Method

¹ VALUES MAY ONLY BE USED AS INDICATION, AND SHOULD NOT BE USED DIRECTLY IN MOULD DESIGN WITHOUT PRIOR VALIDATION

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Processing Techniques

Daplen WN100AIU is recommended to pre-dry before processing. A guideline is to dry the material 3 hours at 80°C. Daplen WN100AIU is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Storage

Daplen WN100AIU 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.

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