17.03.2015 Ed.1

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 Data should not be used for specification work	Test Method
Density	940 kg/m³	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/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6 kJ/m²	ISO 179/1eA

Application Related and Other Tests

Property	Typical Value Data should not be used for specification work	Test Method
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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17.03.2015 Ed.1

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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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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.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

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.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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