Polypropylene
Daplen™ EG110AI
Polypropylene Compound, Mineral Filled

Description
Daplen™ EG110AI is a 12% mineral filled polypropylene compound intended for injection moulding.
This material has an excellent balance between impact strength and stiffness, gives a good surface quality and is easy to process.

Applications
Daplen EG110AI has been developed especially for the car industry to be used in automotive interior parts.

Door panels and pockets
Dashboards
Interior trims
Other automotive interior parts

Special Features

Good scratch resistance
High flowability
Low density
Good surface aesthetics

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	980 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.750 MPa	ISO 178
Tensile Strength (50 mm/min)	19 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	100 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	50 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	7 kJ/m²	ISO 179/1eA

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

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

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

Feeding temperature	40 - 80 °C
Mass temperature	210 - 250 °C
Back pressure	Low to medium
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage
Daplen EG110AI 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.

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Safety
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.

Issuer:
Marketing Automotive / Georg Grestenberger
Product Management / Albin Mariacher

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.

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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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