

PRODUCT DATA SHEET

21.07.2016 Ed.8



Polypropylene

Daplen™ EE112AE

Polypropylene TPO Compound

Description

Daplen EE112AE is a mineral filled elastomer modified polypropylene compound intended for injection moulding.

This material provides excellent paintability, very good impact/stiffness balance and low thermal expansion.

Applications

Daplen EE112AE has been developed especially for the automotive industry and is suitable for applications like:

Bumpers

Automotive exterior applications

Special Features

Primerless paintable allowing optimisation of painting cycle time and reduction of system cost

Low thermal expansion over a broad temperature scale for zero-gap applications

Low density with good impact/stiffness balance enabling weight reduction

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	980 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	14 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.500 MPa	ISO 178
Tensile Strength (50 mm/min)	18 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	95 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	65 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	12 kJ/m ²	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

This product is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure	Low to medium

Daplen is a trademark of the Borealis group.

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Holding pressure
Mould temperature
Screw speed
Flow front speed

30 - 60 MPa
30 - 50 °C
Low to medium
100 - 200 mm/s

Storage

Daplen EE112AE 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

North America: grade available under the name Daplen EE112AEU

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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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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