



**Polypropylene**  
**Daplen™ EE002AE**  
 Polypropylene Reactor Elastomer Modified

**Description**

**Daplen EE002AE** is a reactor elastomer modified polypropylene intended for injection moulding. The product is available in natural colour.

This material has excellent balanced mechanical properties and gives a good surface quality.

This grade is additionally available in an emission optimized version (Daplen EE002AE-AR) with the same technical properties.

**Applications**

**Daplen EE002AE** has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers Automotive exterior applications  
 Exterior trims

**Physical Properties**

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	905 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	11 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.000 MPa	ISO 178
Tensile Strength (50 mm/min)	20 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	76 °C	ISO 75-2
Coefficient of Thermal Expansion (-30 °C/80 °C)	100 µm/mK	Borealis Method
Charpy Impact Strength, notched (23 °C)	65 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	9 kJ/m <sup>2</sup>	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.

**Application Related and Other Tests**

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
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**

Daplen is a trademark of the Borealis group.

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# Daplen EE002AE

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

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

## Storage

**Daplen EE002AE** 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.

**Polypropylene****Daplen EE002AE****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.

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