



# 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.

## Applications

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

Bumpers  
Exterior trims

Automotive exterior applications

## Physical Properties

| Property                                       | Typical Value         | Test Method |
|------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work |                       |             |
| 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    |
| 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 |
|------------------------------------------------|---------------|-------------|
| Data should not be used for specification work |               |             |
| 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

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 |

Daplen is a trademark of the Borealis group.

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Back pressure  
Holding pressure  
Mould temperature  
Screw speed  
Flow front speed

Low to medium  
30 - 60 bar  
30 - 50 °C  
Low to medium  
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.**

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