



# Polypropylene

# Daplen™ EH002AEB

Polypropylene Copolymer

## Description

Daplen EH002AEB is a polypropylene copolymer intended for injection moulding.

## Applications

Daplen EH002AEB has been developed especially for the car industry to be used in automotive exterior parts.

Fender liners

Automotive exterior applications

## Special features

Good impact strength at low temperature

## 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         | Test Method |
|-------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work  |                       |             |
| Density (23 °C)                                 | 890 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                 | 33 g/10min            | ISO 1133    |
| Flexural Modulus (2 mm/min)                     | 940 MPa               | ISO 178     |
| Flexural Strength                               | 22 MPa                | ISO 178     |
| Tensile Modulus (1 mm/min) (23 °C)              | 1.050 MPa             | ISO 527-2   |
| Tensile Strain at Break (50 mm/min) (23 °C)     | 50 %                  | ISO 527-2   |
| Tensile Stress at Yield (50 mm/min) (23 °C)     | 19 MPa                | ISO 527-2   |
| Heat Deflection Temperature Edgewise (0,45 MPa) | 80 °C                 | ISO 75-2    |
| Izod Impact Strength, notched (23 °C)           | 10 kJ/m <sup>2</sup>  | ISO 180/1A  |
| Izod Impact Strength, notched (-30 °C)          | 3,8 kJ/m <sup>2</sup> | ISO 180/1A  |

## Combustion Properties

| Property                                       | Typical Value | Test Method |
|------------------------------------------------|---------------|-------------|
| Data should not be used for specification work |               |             |
| Flammability at thickness 1 mm                 | Max100 mm/min | ISO 3795    |

## Processing Techniques

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

Daplen EH002AEB 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 95° - 105°C. Following parameters should be used as guidelines:

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Research Center Tel.+188 1699 6168



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|                   |                              |
|-------------------|------------------------------|
| Melt temperature  | 220 - 240 °C                 |
| Holding pressure  | 50-70% of injection pressure |
| Mould temperature | 20 - 60 °C                   |
| Injection speed   | Low to medium                |

## Storage

**Daplen EH002AEB** 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, recovery and disposal 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.

## 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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