



# Polypropylene Daplen<sup>TM</sup> EH222AEB

Polypropylene Compound, Mineral Filled

## Description

**Daplen EH222AEB** is a 20% mineral filled polypropylene compound intended for injection moulding.

## Applications

**Daplen EH222AEB** has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers

## Special features

Excellent flow  
stiffness and impact balance

Stabilised according to UV requirements from the  
automotive industry

## 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)                                | 1060 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                | 31 g/10min             | ISO 1133    |
| Flexural Modulus (2 mm/min)                    | 1.900 MPa              | ISO 178     |
| Tensile Modulus (5 mm/min) (23 °C)             | 2.100 MPa              | ISO 527-2   |
| Tensile Strain at Break (50 mm/min) (23 °C)    | 30 %                   | ISO 527-2   |
| Tensile Stress at Yield (50 mm/min) (23 °C)    | 20 MPa                 | ISO 527-2   |
| Heat Deflection Temperature Edgewise (1,8 MPa) | 54 °C                  | ISO 75-2    |
| Izod Impact Strength, notched (23 °C)          | 29 kJ/m <sup>2</sup>   | ISO 180/1A  |
| Izod Impact Strength, notched (0 °C)           | 8 kJ/m <sup>2</sup>    | ISO 180/1A  |
| Izod Impact Strength, notched (-40 °C)         | 3,5 kJ/m <sup>2</sup>  | ISO 180/1A  |
| Hardness, Shore D                              | 60                     | ISO 868     |

## 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.

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**Polypropylene**

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Daplen EH222AEB 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 moulding 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 MPa    |
| Mould temperature   | 30 - 50 °C     |
| Screw speed         | Low to medium  |
| Flow front speed    | 100 - 200 mm/s |

## Storage

**Daplen EH222AEB** 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.

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**Disclaimer**

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