



**Polypropylene**  
**Daplen™ EH104AE**  
 Polypropylene TPO Compound

**Description**

**Daplen EH104AE** is a 12% mineral filled elastomer modified polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness, high melt flow rate and gives a good surface quality.

**Applications**

**Daplen EH104AE** has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers

Exterior trims

**Special Features**

UV stabilised  
 High scratch resistance  
 Suitable for applications, which require low expansion over a broad temperature scale

Excellent surface appearance on unpainted and grained parts  
 High flowability allowing to mould complex-structured parts with very high "flow path / wall thickness ratios"

**Physical Properties**

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	970 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	40 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.200 MPa	ISO 178
Tensile Strength (50 mm/min)	16 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	80 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	38 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	5,5 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.

**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. Daplen EH104AE is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Daplen is a trademark of the Borealis group.

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria  
 Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
 FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)



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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 m/min

## Storage

**Daplen EH104AE** 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

South America: grade available under the name Daplen EH104AEB

For information on regional availability please contact Borealis Sales Representative.

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**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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