

## PRODUCT DATA SHEET

08.07.2015 Ed.3

**Polypropylene****Daplen™ EH119AE**

Polypropylene TPO Compound

**Description**

**Daplen EH119AE** is a 15% mineral filled elastomer modified polypropylene compound intended for injection moulding.

This material has excellent balanced mechanical properties, gives a good surface quality and is easy to process.

**Applications**

**Daplen EH119AE** has been developed especially for the automotive industry.

Bumpers

Exterior trims

**Special Features**

Excellent paintability

**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                                         | 970 kg/m <sup>3</sup> | ISO 1183        |
| Melt Flow Rate (230 °C/2,16 kg)                 | 35 g/10min            | ISO 1133        |
| Flexural Modulus (2 mm/min)                     | 1.750 MPa             | ISO 178         |
| Tensile Strength (50 mm/min)                    | 19 MPa                | ISO 527-2       |
| Coefficient of Thermal Expansion (-30 °C/80 °C) | 50 µm/mK              | Borealis Method |
| Charpy Impact Strength, notched (23 °C)         | 55 kJ/m <sup>2</sup>  | ISO 179/1eA     |
| Charpy Impact Strength, notched (-30 °C)        | 6,5 kJ/m <sup>2</sup> | ISO 179/1eA     |

**Processing Techniques**

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

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 |

Daplen is a trademark of the Borealis group.

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**Polypropylene****Daplen EH119AE****Storage**

**Daplen EH119AE** 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**

North America

For information on regional availability please contact Borealis Sales Representative.

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**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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