

**Polypropylene****Daplen™ EF120AE**

Polypropylene TPO Compound

Description

Daplen EF120AE 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 EF120AE has been developed especially for the automotive industry.

Bumpers

Exterior trims

Special Features

UV stabilised

Excellent surface appearance on unpainted and grained parts

High scratch resistance

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 | 990 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 23 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 1.750 MPa | ISO 178 |
| Tensile Strength (50 mm/min) | 19 MPa | ISO 527-2 |
| Heat Deflection Temperature B (0,45 MPa) | 101 °C | ISO 75-2 |
| Coefficient of Thermal Expansion (-30 °C/80 °C) | 50 µm/mK | Borealis Method |
| Charpy Impact Strength, notched (23 °C) | 55 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 7 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-30 °C) | 6,5 kJ/m ² | 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 |

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Polypropylene

Daplen EF120AE

Screw speed
Flow front speed

Low to medium
100 - 200 mm/s

Storage

Daplen EF120AE 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

For information on regional availability please contact Borealis Sales Representative.

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