



Polypropylene

Daplen™ EF120AEB

Polypropylene TPO Compound

Description

Daplen EF120AEB is a 15% mineral filled elastomer modified polypropylene compound intended for injection moulding.

Applications

Daplen EF120AEB has been developed especially for the automotive industry.

Bumpers

Exterior trims

Special features

High scratch resistance
Excellent surface appearance on unpainted and grained parts

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

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)	1000 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	22 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.650 MPa	ISO 178
Flexural Strength	26 MPa	ISO 178
Tensile Stress at Yield (50 mm/min) (23 °C)	19 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,80 MPa)	52 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	50 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	6,5 kJ/m ²	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	45 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	5,5 kJ/m ²	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

Following parameters should be used as guidelines:

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Daplen EF120AEB 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:

Melt temperature	220 - 260 °C
Holding pressure	50-70% of injection pressure
Mould temperature	30 - 60 °C
Injection speed	Medium

Storage

Daplen EF120AEB 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

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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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.

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