



Polypropylene

Daplen™ EF109AEB

Polypropylene TPO Compound

Description

Daplen EF109AEB is a 20% mineral filled elastomer modified polypropylene compound intended for injection moulding.

Applications

Daplen EF109AEB has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers

Exterior trims

Special features

Low thermal expansion
Suitable for applications, which require low expansion over a broad temperature scale

Excellent stiffness and impact balance
Optimised surface

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)	1030 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.700 MPa	ISO 178
Flexural Strength	27 MPa	ISO 178
Tensile Stress at Yield (50 mm/min) (23 °C)	19 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,80 MPa)	56 °C	ISO 75-2
Vicat softening temperature B50,	56 °C	ISO 306
Izod Impact Strength, notched (23 °C)	32 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	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

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

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168



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

Storage

Daplen EF109AEB 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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