

16.09.2014 Ed.5



PolypropyleneTM DaplenTM WH107AEB

Polypropylene Compound, Mineral Filled

Description

Daplen WH107AEB is a 13% mineral filled elastomer modified polypropylene compound intended for injection moulding.

Applications

Daplen WH107AEB has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers

Special features

Excellent surface appearance on unpainted and grained parts
UV stabilised

Excellent scratch resistance
High impact strength
Excellent flowability

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (23 °C)	990 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	37 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.600 MPa	ISO 178
Flexural Strength	25 MPa	ISO 178
Tensile Modulus (1 mm/min) (23 °C)	1.600 MPa	ISO 527-2
Tensile Strain at Break (50 mm/min) (23 °C)	40 %	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	19 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (0,45 MPa)	97 °C	ISO 75-2
Izod Impact Strength, notched (23 °C)	35 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-20 °C)	7 kJ/m ²	ISO 180/1A

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

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.

Daplen is a trademark of the Borealis group.

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| Distrito Industrial Alfredo Rela | CEP: 13255-840
| Itatiba - SP | Brasil | Website www.borealisgroup.com

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Daplen WH107AEB 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 moulding parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	230 - 280 °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 WH107AEB 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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 Polypropylene
Daplen WH107AEB**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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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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