

PRODUCT DATA SHEET

24.07.2015 Ed.7



Polypropylene WH107AE

Description

WH107AE is a 13% mineral filled elastomer modified polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness and gives a good surface quality.

Applications

WH107AE has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers
Rocker panels

Body side mouldings
Body panels

Special Features

Excellent scratch resistance
Excellent surface appearance on unpainted and grained parts

Available with and without UV-stabilisation

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (23 °C)	980 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	40 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.600 MPa	ISO 178
Tensile Strength (50 mm/min)	19 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	98 °C	ISO 75-2
Coefficient of Thermal Expansion (-30 °C/80 °C)	70 µm/mK	Borealis Method
Charpy Impact Strength, notched (23 °C)	47 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	5,5 kJ/m ²	ISO 179/1eA

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

Processing Techniques

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

WH107AE 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

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Mould temperature
Screw speed
Flow front speed

30 - 50 °C
Low to medium
100 - 200 mm/s

Storage

WH107AE 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.

Regional Availability

Europe

South America

For information on regional availability please contact Borealis Sales Representative.

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WH107AE**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.

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.

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