

## Polypropylene

# WN503AE

### Polypropylene TPO Compound, High Performance Masterbatch

#### Description

**WN503AE** is a 50 % mineral filled high performance masterbatch. It is typically used in combination with RTPO basepolymers and blended directly on the injection moulding machine in order to achieve the desired material mechanical property profile.

#### Applications

**WN503AE** has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers

Automotive exterior applications

Exterior trims

#### Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	1340 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	3 g/10min	ISO 1133

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.

#### Injection Moulding

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	As low as possible
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

#### Storage

**WN503AE** 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

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.

Daplen is a trademark of the Borealis group.

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### Regional Availability

Europe

For additional information on regional availability please contact your local Borealis Sales Representative.

#### Issuer:

Marketing Automotive / Daniel Bahls  
Product Management / Michael Otte

#### 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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