PRODUCT DATA SHEET

Polypropylene

Borcycle™ GD3600SY

Recycled PP Compound

EverMinds™
Accelerating Action on Circularity

Description

Borcycle™ GD3600SY is a 30% glass fiber reinforced polypropylene compound.
This material contains at least 65% post-consumer recycled polymer and is intended for injection molding.

The product is available in standard black 9502.

- High recycled content
- Easy processing
- Good stiffness impact balance
- Low volatiles

Applications

Borcycle™ GD3600SY is intended for following applications:

- Exterior automotive parts
- Structural interior parts
- Under the bonnet components

Physical properties

Property	Typical value *	Unit	Test method
Density	1140	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	10	g/10min	ISO 1133-1
Tensile modulus (1 mm/min)	6600	MPa	ISO 527-2
Tensile strength (50 mm/min)	80	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	8	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa)	156	°C	ISO 75-2

* Data should not be used for specification work

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

Processing techniques

This product is easy to process with standard injection molding 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:

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C °C
Mass temperature	210 - 250 °C °C
Back pressure	Low to medium
Holding pressure	30 - 60 bar bar
Mould temperature	30 - 50 °C °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s mm/s

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Polypropylene

Borcycle™ GD3600SY

Packaging and storage

Borcycle™ GD3600SY should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

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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Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com

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