

Polypropylene

Borcycle™ GD3600SY

Polypropylene Compound, Glass Fibre Reinforced, Recyclate Content

Description

Borcycle™ GD3600SY is a 30% chemically coupled glass fibre reinforced polypropylene compound. This material contains 68% post-consumer recycled polymer and is intended for injection moulding.

The product is available in standard black 9502.

Applications

Borcycle GD3600SY has been developed especially for the automotive industry.

Special Features

Good flowability
Good impact behaviour

Recycled content

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1140 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	6,5 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	6.300 MPa	ISO 527-2
Tensile Strength (50 mm/min)	75 MPa	ISO 527-2
Charpy Impact Strength, notched (23 °C)	8,5 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, unnotched (23 °C)	35 kJ/m ²	ISO 179/1eU

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	210 - 250 °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

Borcycle GD3600SY 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.

Borcycle is a trademark of the Borealis group.

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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.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

Issuer:

Marketing Automotive / Georg Grestenberger
Product Management / Susanne Kahlen

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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