

Polypropylene

Borcycle™ GE2331SY

Polypropylene Compound, Glass Fibre Reinforced, Recyclate Content

Description

Borcycle™ GE2331SY is a 20% chemically coupled glass fibre reinforced polypropylene compound. This material contains 40% post-consumer recycled polymer and is intended for injection moulding.

Applications

Borcycle GE2331SY has been developed especially for the car industry to be used in automotive interior parts.

Special Features

Excellent flowability

Good impact behaviour

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	1050 kg/m ³	ISO 1872-2
Melt Flow Rate (230 °C/2,16 kg)	9 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	4.600 MPa	ISO 527-2
Tensile Strength (50 mm/min)	64 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	155 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	7 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	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.

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	Low to medium
Holding pressure	30 - 60 bar
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage

Borcycle GE2331SY 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

North America: grade available under the name Borcycle GE2331SYU

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

Issuer:

Marketing Automotive / Grestenberger Georg

Product Management / Mariacher Albin

Disclaimer

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