PRODUCT DATA SHEET

Polypropylene

Borcycle™ WE1355SYB

Recycled PP Compound

Description

Borcycle WE1355SYB is a 10% Glass Fiber/Mineral filled polypropylene compound with 30% recycled PP intended for injection molding. This material shows excellent mechanical properties also at elevated temperatures.

Typical characteristics

Borcycle™ WE1355SYB can be described with following typical characteristics:

Sustainability

Low density

Applications

Borcycle™ WE1355SYB is intended for following applications:

Automotive under the bonnet parts

Under body shieldings

Borcycle WE1355SYB has been developed especially for automotive industry and advanced products.

Physical properties

Property	Typical value *	Unit	Test method
Density	984	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	12,5	g/10min	ISO 1133-1
Flexural Modulus (2 mm/min) (23°C)	2800	MPa	ISO 178
Tensile stress at yield (50 mm/min) (23°C)	43	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	3,5	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa)	140	°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

To avoid residual moisture from transport or storage, the material should be pre-dried for approximately 2 to 4 hours at 80-120°C.
This product is easy to process with standard injection molding machines. Following molding parameters should be used as guidelines:

Processing setting	Typical value/range
Melt temperature	210 - 240 °C
Holding pressure [1]	50 - 70 %
Mould temperature	20 - 60 °C
Injection speed	Low to medium

[1] *of injection pressure*

Packaging and storage

Borcycle™ WE1355SYB 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.

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Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available on 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

South America

For information on regional availability please contact Borealis Sales Representative.

Disclaimer

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