

Polypropylene

Borcycle™ EE1300SY

Recycled PP Compound

Preliminary



Accelerating Action
on Circularity

Description

Borcycle™ EE1300SY is a 15% % mineral filled polypropylene compound containing 30% post-consumer recycled polymer.

This material has an excellent balance between impact strength and stiffness and is available in different OEM colors.

Typical characteristics

Borcycle™ EE1300SY can be described with following typical characteristics:

- Excellent scratch resistance
- Low volatiles
- Good surface aesthetics
- Recycled content

Applications

Borcycle™ EE1300SY is intended for following applications:

- Automotive interior applications
- Center consoles
- Door panels and pockets
- Pillar trims
- Trunk claddings

Physical properties

Property	Typical value *	Unit	Test method
Density	1000	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	15	g/10min	ISO 1133-1
Flexural Modulus (2 mm/min) (23°C)	1750	MPa	ISO 178
Tensile strength (50 mm/min)	21	MPa	ISO 527-2
Heat deflection temperature B (0.45 MPa)	92	°C	ISO 75-2
Charpy impact strength, notched (23 °C)	25	kJ/m²	ISO 179-1
Charpy impact strength, notched (-20 °C)	4.5	kJ/m²	ISO 179-1/1eA

* 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.

Other properties

Property	Typical value *	Unit	Test method
Fogging (100 °C,16 h)	<1,5	mg	DIN 75201
Total emission (headspace)	<50	µg C/g	VDA 277

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Borcycle™ is a trademark of the Borealis Group



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Processing techniques

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

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	210 - 240 °C
Back pressure	Low to medium
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

The actual conditions will depend on the type of equipment used.

Packaging and storage

Borcycle™ EE1300SY 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

This product datasheet is preliminary and potentially product properties, process recommendation and/or product production location could still be adapted. Recycled plastics are subject to material inconsistencies. Borealis makes no warranties which extend beyond the description contained herein and to the best of our knowledge, the information is accurate and reliable as of the date of publication. Because of the multitude of possible influences during the use and application of our products, the information included does not release customers and users from the obligation to examine and test them carefully. Please note that nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose as Borealis do not know the origin of the product. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above. The product(s) mentioned herein are not intended to be used for food contact, drinking water contact, medical, pharmaceutical or healthcare applications and we do not support their use for such applications. Otherwise, our General Terms and Conditions of Sale apply.