

Polypropylene

Borcycle™ EE1300SY

Polypropylene Compound with Recyclate Content, Mineral Filled

Description

Borcycle™ EE1300SY is a 15% % mineral filled polypropylene compound containing 30% post-consumer recycled polymer and is intended for injection moulding.

This material has an excellent balance between impact strength and stiffness and gives a good surface quality.

Applications

Borcycle EE1300SY has been developed especially for the car industry to be used in automotive interior parts.

Door panels and pockets
Pillar trims

Tailgate claddings
Interior trims

Special Features

High scratch resistance
Good surface aesthetics

Low volatiles
Recycled content

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1000 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	13 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.750 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/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4,5 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.

Application Related Tests

Property	Typical Value	Test Method
Data should not be used for specification work		
Fogging (100 °C,16 h)	< 1,5 mg	DIN 75201
Emission	< 50 µgC/g	VDA 277

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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 EE1300SY 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.

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.

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Issuer:

Marketing Automotive / Georg Grestenberger
Product Management / Daniela Mileva

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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