

Polypropylene

**Borcycle" MD2550SY**

**Polypropylene Mineral Filled Compound**

**Description**

Borcycle" MD2550SY is a 20% mineral filled polypropylene compound intended for injection molding. This grade contains 50% post-consumer recycled content.

This material has been specifically developed for the automotive industry.

**Typical characteristics**

Borcycle" MD2550SY can be described with following typical characteristics:

High Recycled Content Balance between stiffness and impact

**Applications**

Borcycle" MD2550SY is intended for following applications:

Cowl vent grilles Other automotive parts  
Under body shieldings Structural parts

**Physical properties**

Property	Typical value *	Unit	Test method
Density <sup>1</sup>	1080	kg/m <sup>3</sup>	ISO 1183-1
MFR 230°C/2.16kg	6	g/10min	ISO 1133-1
Flex modulus 23°C/24h	2500	MPa	ISO 178
Charpy notched 23°C/24h	3	kJ/m <sup>2</sup>	ISO 179-1
Tensile modulus 24h	2500	MPa	ISO527-1
Charpy impact strength, notched (-20 °C) <sup>1</sup>	1.3	kJ/m <sup>2</sup>	ISO 179-1/1eA
Tensile strength (50 mm/min) <sup>1</sup>	28	MPa	ISO 527-2

\* Data should not be used for specification work

<sup>1</sup> To be used for PDS

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	210 - 250 °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

Borcycle" is a trademark of the Borealis Group



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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 for approximately 2h at 80°C.

The following moulding parameters should be used as guidelines:

### Packaging and storage

Borcycle" MD2550SY 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](http://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](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

### 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.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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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. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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