

## Polypropylene

# Borcycle™ MG1400SY

Polypropylene Compound with Recyclate Content, Mineral Filled

### Description

**Borcycle™ MG1400SY** is a 13% mineral filled polypropylene compound intended for injection moulding. It contains 40% post-consumer recycled polymer.

The product is available in standard black 9502.  
This material has been specifically developed for the automotive industry.

### Applications

**MG1400SY** has been developed especially for the car industry to be used in automotive interior parts.

Center consoles  
Interior trims

Door module carriers

### Special Features

Excellent flowability  
Low density

Low volatiles  
Reduced fogging

### Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	1000 kg/m <sup>3</sup>	ISO 1872-2
Melt Flow Rate (230 °C/2,16 kg)	24 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	2.200 MPa	ISO 178
Tensile Strength (50 mm/min)	26 MPa	ISO 527-2
Charpy Impact Strength, notched (23 °C)	6 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	2 kJ/m <sup>2</sup>	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 and Other 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	Low to medium
Holding pressure	30 - 60 bar
Mould temperature	30 - 60 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

### Storage

**MG1400SY** 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 additional information on regional availability please contact your local Borealis Sales Representative.

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## MG1400SY

### Issuer:

Marketing Automotive / Georg Grestenberger  
Product Management / Angelica Legras

### Disclaimer

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