

Polypropylene

Borcycle™ M MG1416SY

Polypropylene Compound with Recyclate Content, Mineral Filled

Description

Borcycle™ M MG1416SY is a 10% mineral filled polypropylene compound. This material contains 40% post-consumer recycled polymer and is intended for injection moulding.

Applications

Borcycle M MG1416SY has been developed especially for the car industry to be used in automotive interior parts.

Pillar trims Trunk claddings
Interior trims

Special Features

High scratch resistance Low density
Good surface aesthetics Recycled content
Excellent flowability

Physical Properties

| Property | Typical Value | Test Method |
|--|-----------------------|-------------|
| Data should not be used for specification work | | |
| Density | 985 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 20 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 1.900 MPa | ISO 178 |
| Tensile Strength (50 mm/min) | 24 MPa | ISO 527-2 |
| Heat Deflection Temperature B (0,45 MPa) | 100 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 7 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 2 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.

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 M MG1416SY 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.

Borcycle is a trademark of the Borealis group.

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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.

Issuer:

Marketing Automotive / Georg Grestenberger
Product Management / Angelica Legras

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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