

Polypropylene

Borcycle™ MF1981SY-95

Post-Consumer Recyclate

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Description

Borcycle™ MF1981SY-95 is a Post-Consumer Recycled (PCR) compound with around 10% talc, supplied in pellet form for high-end applications mainly in the appliance industry. Borcycle MF1981SY is an ideal PCR solution used where sustainability and circularity matter.

It is not intended for use in food contact, potable water contact, pharmaceutical and medical applications.

Applications

Borcycle MF1981SY-95 offers excellent mechanical performances on top of very good optical properties. It is used in application like

- Vacuum cleaners and other small appliances
- Visible and non-visible applications in white goods
- Structural parts

Special features

- Over 80% Post Consumer Recyclate made from used plastic scrap
- Good impact performance
- Good aesthetical properties
- Colour: black
- Shape: cylindrical pellets

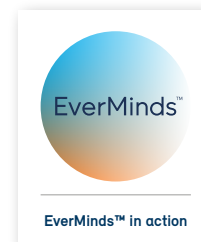
Physical properties

Property	Typical Value	Unit	Test Method
Density	968	kg/m ³	ISO 1183
Melt Flow Rate (190°C/2.16kg)	19	g/10min	ISO 1133
Residual Moisture content	<0.1	%	Internal test method
Ignition Residue	10	%	ISO 1172
Tensile Modulus	1300	MPa	ISO 527
Yield Stress	21		ISO 527
Charpy Impact Strength, notched (23°C)	6		ISO 179

Data should not be used for specification work

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Processing techniques

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

Injection Moulding

Following moulding parameters should be used as guidelines:

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	230 - 280 °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

Packaging and storage

Borcycle MF1981SY-95 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.

Disclaimer

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. Where necessary, the customer is recommended to obtain a feedstock release from the customer. 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. Due to nature of recyclates, some variation in colour and other product properties can be observed between batches. Otherwise, our General Terms and Conditions of Sale apply.

Borcycle™ is a trademark of the Borealis Group