

Polypropylene

Borcycle™ MF1981SY

Recycled PP Compound

Description

Borcycle™ MF1981SY 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, drinking water contact, pharmaceutical and medical applications. This product is available in black colour.

Typical characteristics

Borcycle™ MF1981SY can be described with following typical characteristics:

80 % Post-Consumer Recyclate

Good Aesthetic Performance

Good Impact Performance

Applications

Borcycle™ MF1981SY is intended for following applications:

Structural parts

Small appliances

Vacuum cleaners

White goods

Physical properties

Property	Typical value *	Unit	Test method
Density	970	kg/m ³	
Melt flow rate (190 °C/2.16 kg)	19.0	g/10min	ISO 1133-1
Charpy impact strength, notched (23 °C)	5	kJ/m ²	ISO 179-1
Tensile modulus (1 mm/min)	1400	MPa	
Tensile strength	25	MPa	

* Data should not be used for specification work

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:

Borcycle™ is a trademark of the Borealis Group



Polypropylene

Borcycle™ MF1981SY

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	230 - 280 °C
Mould temperature	30 - 50 °C
Back pressure	Low - Medium
Holding pressure	30 - 60 MPa
Screw speed	Low - Medium
Flow front speed	100 - 200 mm/s

Packaging and storage

Borcycle™ MF1981SY 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.

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 and www.borealiseverminds.com.

Disclaimer

Recycled plastics are subject to material inconsistencies. mtm/Exoplast 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 mtm/Exoplast 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 mtm/Exoplast 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. Otherwise, our General Terms and Conditions of Sale apply.