

## Polypropylene

## Borcycle™ UF551MO-72

## Recycled PP Compound

Accelerating Action  
on Circularity

## Description

Borcycle™ UF551MO is an integrated virgin homo BNT PP / recycled PP solution with 55% post-consumer recycle content. Post-consumer plastic waste used for this product is pre-sorted, sorted, shredded, washed, dried, and extruded including melt filtration.

This grade contains proprietary Borealis Nucleation Technology (BNT) to produce highly crystalline polypropylene. UF551MO-72 is intended for injection moulding. "-72" refers to a visual indication of "light grey" colour version of the product. UF551MO-72 contains anti-static and slip additives, which result in good demoulding properties. Products moulded from this grade exhibit excellent dimension consistency combined with good stiffness. Due to nature of recyclates, some variation in colour can be observed between batches. Not intended for use in beverages, drinking water contact, food contact, medical, pharmaceutical or healthcare applications.

Cas No. 9003-07-0

Caps and closures for industrial packaging

Injection-moulded non-food applications

Caps and closures for non-food applications

## Physical properties

Property	Typical value *	Unit	Test method
Melt flow rate ( 230 °C/2.16 kg)	21	g/10min	ISO 1133-1
Charpy impact strength, notched ( 23 °C)	4	kJ/m <sup>2</sup>	ISO 179-1
Tensile modulus ( 1 mm/min)	1600	MPa	ISO 527-2

\* Data should not be used for specification work

## Processing techniques

This product is easy to process with standard injection moulding machines.

Following moulding parameters should be used as guidelines:

Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure <sup>1</sup>	200 - 500 bar
Injection speed	High °C

<sup>1</sup> Minimum to avoid sink marks.

Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

## Packaging and storage

UF551MO-72 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).

Borcycle™ is a trademark of the Borealis Group



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### 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).

### Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

### Disclaimer

Recycled plastics are subject to material inconsistencies. mtm/Ecoplast 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/Ecoplast 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/Ecoplast 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.