

Polypropylene

**Borcycle™ UJ599MO-71**

**Recycled PP Compound**



Accelerating Action  
on Circularity

**Description**

UJ599MO is an integrated virgin/recycled PP solution with 55% post-consumer recycle content with high melt flow rate, based on Borstar Nucleation Technology that allows cycle time reduction. This grade is intended for injection moulding. It is designed for high-speed injection moulding and contains nucleating and demoulding additives. Products originating from this grade have excellent balance of stiffness and impact strength at ambient and cold temperature, good flow and good demoulding properties. 71 refers to colour indication "light colour" version of resin UJ599MO. 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.

Available colours

- 71 refers to colour indication "light colour" version
- 90 refers to colour indication "white" version
- 99 refers to colour indication "natural" version

Cas No. 9010-79-1

**Applications**

Borcycle™ UJ599MO-71 is intended for following applications:

Caps and closures for non-food applications

Injection-moulded non-food applications

Special Features

- Good stiffness and impact strength balance
- Good demoulding properties
- Good flow behaviour

**Physical properties**

Property	Typical value *	Unit	Test method
Density	910	kg/m <sup>3</sup>	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	70.0	g/10min	ISO 1133-1
Tensile modulus (1 mm/min)	1400	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	4.5	%	ISO 527-2
Tensile stress at yield (50 mm/min)	25	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	5.5	kJ/m <sup>2</sup>	ISO 179-1/1eA

\* Data should not be used for specification work

**Processing techniques**

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

Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure	200 - 500 bar
Mould temperature	30 - 40 °C

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

Borcycle™ is a trademark of the Borealis Group



# Polypropylene

## Borcycle™ UJ599MO-71

### Packaging and storage

Borcycle™ UJ599MO-71 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).

### 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.