

Polypropylene

Preliminary

Borcycle™ Borcycle UG522MO-70



Accelerating Action
on Circularity

Recycled PP Compound

Description

Borcycle™ UG522MO-70 is an integrated virgin block copo PP / recycled PP solution with 55% post-consumer recycle with medium melt flow rate, based on Borstar Nucleation Technology. This grade is intended for injection moulding. It is designed for high-speed injection moulding and contains nucleating and demoulding additives. The post-consumer recycle is made from post-consumer plastic waste which is pre-sorted, sorted, shredded, washed, dried, extruded (including melt filtration, at a level of 110 microns) and pelletized, resulting in a circular polypropylene grade with minimum PP content above 95% (measured via DSC). The material is sold in pellet form. Products originating from this grade have excellent balance of stiffness and impact strength at ambient and cold temperature and good demoulding properties. 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. Borcycle™ UG522MO-70 is intended for injection moulding. “-70” refers to the colour version of the product, a visual indication of “light colour”. While recyclates may exhibit slight color variations between batches, our innovative integration of virgin PP into the ready-made PP compound ensures an optimised colour consistency. The product is not intended for use in beverages, drinking water contact, food contact, medical, pharmaceutical or healthcare applications. UG22MO-70 is part of EuCertPlast according to European Standard EN15343:2007, and compliant with EN 15345:2008 and UNI 10667-3.

Cas No. 9010-79-1
 PCR recyclate Good demoulding properties
 High stiffness and impact strength balance

Applications

Borcycle™ Borcycle UG522MO-70 is intended for following applications:
 Caps and closures for non-food applications Injection-moulded non-food applications
 Industrial applications

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 ¹	200 - 500 bar
Mould temperature	30 - 40 °C
Injection speed	high bar

¹ minimum to avoid sink marks.

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

Packaging and storage

Borcycle™ Borcycle UG522MO-70 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.

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 and www.borealiseverminds.com.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

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.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. 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. 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.