

Polypropylene

Borcycle™ AH1040MO-90

Recycled PP



Accelerating Action
on Circularity

Description

Borcycle™ AH1040MO-90 is a recycled PP solution with post-consumer recycle (PCR) content above 98%. It is made from post-consumer plastic waste which undergoes processing steps such as sorting, shredding, washing, drying, extrusion (including melt filtration, at a level of 110 microns) and pelletizing, resulting in a circular polypropylene grade with minimum PP content above 90%. The material is sold in pellet form.

Borcycle™ AH1040MO-90 is intended for injection moulding. “-90” refers to the colour version of the product, a visual indication of “white”. Due to the nature of recyclates, some variation in colour can be observed between batches.

The product is not intended for use in beverages, drinking water contact, food contact, medical, pharmaceutical or healthcare applications.

Borcycle™ AH1040MO-90 is part of EuCertPlast according to European Standard EN15343:2007, and compliant with EN 15345:2008 and UNI 10667-3.

Cas No. 9003-07-0

Typical characteristics

Borcycle AH1040MO-90 can be described with following typical characteristics:

PCR recycle	Low odour
Good flowability	Low mould and surface deposits

Applications

Borcycle™ AH1040MO-90 is intended for following applications:

Caps and closures for non-food applications	Injection-moulded non-food applications
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Physical properties

Property	Typical value *	Unit	Test method
Density	916	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	40	g/10min	ISO 1133-1
Tensile modulus (1 mm/min)	1350	MPa	ISO 527-2
Tensile stress at yield	28	MPa	ISO 527-2
Vicat softening temperature A50 (10 N)	146	°C	ISO 306
Charpy impact strength, notched (23 °C)	4.8	kJ/m²	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.

Borcycle™ is a trademark of the Borealis Group



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

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

Packaging and storage

AH1040MO-90 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

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.