

Polypropylene

Borcycle™ AG1020MO-90

Post-Consumer Recyclate

Description

Borcycle™ AG1020MO-90 is a recycled polypropylene (PP) grade with more than 96.5% post-consumer recyclate (PCR) content. It is made from used plastic waste that is cleaned, processed and finely filtered (110 microns) to produce a circular PP material with over 90% PP content. The product is supplied in pellet form.

The material is intended for injection moulding. The colour grade “-90” indicates a white appearance; minor colour variations between batches are normal for recycled materials.

Borcycle™ AG1020MO-90 is not suitable for food, beverage, drinking water, medical, pharmaceutical or healthcare applications. It complies with EN 15343:2007 and UNI 10667-3.

Cas No. 9003-07-0

Typical characteristics

Borcycle™ AG1020MO-90 can be described with following typical characteristics:

High quality PCR

Low mould and surface deposits

Good flowability

Good surface aesthetics

Low odour

Applications

Borcycle™ AG1020MO-90 is intended for following applications:

Caps and closures for non-food applications

Injection-moulded non-food applications

Household and chemical containers such as detergents, cleaners, motor oils

Lids

Household applications

Pails

Specifications

Borcycle™ AG1020MO-90 is expected to meet the applicable requirements included in the below mentioned standards provided it is processed using sound material handling and processing practices as well as appropriate testing procedures.

Physical properties

Property	Typical value *	Unit	Test method
Density	917	kg/m ³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	23	g/10min	ISO 1133-1
Tensile modulus (1 mm/min) (23°C)	1350	MPa	ISO527-2
Tensile stress at yield (50 mm/min) (23°C)	28	MPa	ISO527-2
Charpy impact strength, notched (23 °C)	5	kJ/m ²	ISO 179-1/1eA
Ash 625°C	≤2	%	ISO 3451

* 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	10 - 30 °C
Injection speed	As high as possible

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.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

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.