

Polyethylene

Borcycle™ AB2681-99

Post-Consumer Recyclate



Accelerating Action
on Circularity

Description

Borcycle™ AB2681-99 is a recycled PE solution with post-consumer recyclate (PCR) content above 98%. It 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 polyethylene grade with minimum PE content above 95% (measured via DSC). The material is sold in pellet form. AB2681-99 is intended for extrusion blow moulding. “-99” refers to the colour version of the product, a visual indication of “natural”. 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. AB2681-99 is part of EuCertPlast according to European Standard EN15343:2007, and compliant with EN 15344:2008.

Cas No. 9002-88-4

PCR recyclate Low mould and surface deposits
 High polymer purity Natural colour
 Low odour

Applications

Borcycle™ AB2681-99 is intended for following applications:

Bottles and containers up to 10 litres Household and chemical containers such as detergents, cleaners, motor oils
 Caps and closures for non-food applications

Physical properties

Property	Typical value *	Unit	Test method
Density	960	kg/m ³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	0.6	g/10 min	ISO 1133-1
Tensile modulus (1 mm/min)	980	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	25	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	>30	kJ/m ²	ISO 179-1/1eA

* Data should not be used for specification work

Processing techniques

AB2681-99 is easy to extrude and can be used in all conventional blow-moulding or extrusion machines. Following parameters should be used as guidelines:

Processing setting	Typical value/range
Barrel temperature	170 - 190 °C
Die temperature	175 - 190 °C
Melt temperature	170 - 200 °C

Packaging and storage

AB2681-99 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.

Borcycle™ is a trademark of the Borealis Group



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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

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.