

PRODUCT DATA SHEET

16.11.2021 Ed. 1

Polypropylene

Borcycle™ UF582SA-90

Post-Consumer Recyclate
Preliminary



Description

Borcycle™ UF582SA-90 is a high gloss, white compound with 55% advanced Post-Consumer Recycled (PCR) content, supplied in pellet form for high-end applications mainly in the appliance industry. This product is an ideal PCR solution used where sustainability and circularity matter. It is not intended for use in food contact, potable water contact, pharmaceutical and medical applications. Due to the nature of recyclates, some variation in colour can be observed between batches.

Applications

Borcycle UF582SA-90 offers excellent mechanical performances on top of very good optical properties. It is used in applications like:

Small appliances
White goods

Rigid applications

Special Features

55% Post-Consumer Recyclate made from used plastic scrap
Good stiffness performance
Excellent aesthetical properties

Excellent antistatic performance
High heat resistance
Colour: White

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2, 16 kg)	15 g/10min	ISO 1133
Flexural Modulus	1.450 MPa	ISO 178
Tensile Modulus	1.600 MPa	ISO 527
Elongation at Break	28 %	ISO 527
Heat Deflection Temperature B (0,45 MPa)	100 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2 kJ/m ²	ISO 179/1eA

Processing Techniques

The actual conditions will depend on the type of equipment used.

Injection Moulding

Following parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	230 - 280 °C
Back pressure	Low to medium
Holding pressure	30 - 60 bar
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Borcycle is a trademark of the Borealis group.

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Storage

Borcycle UF582SA-90 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

Regional Availability

Europe

For additional information on regional availability please contact your local Borealis Sales Representative.

Issuer:

Marketing Appliances / Gisela Lehner
Product Management / Albin Mariacher

Disclaimer

Recycled plastics are subject to material inconsistencies. Borealis 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 Borealis 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 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. 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.

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