PRODUCT DATA SHEET

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Polypropylene

BA202E

Polypropylene Block Copolymer

Description

BA202E is a non-pigmented, high molecular weight, low melt flow rate polypropylene copolymer with very high impact strength.

The product is supplied in pellet form for melt extrusion.

Applications

BA202E is intended for following applications:

Steel pipe coating

Non-pressure pipe systems

BA202E is recommended for foamed layers in thermal insulation coating, non-pressure pipes & fittings, thin-walled corrugated pipes and profiles.

Physical properties

Property	Typical value *	Unit	Test method
Density	900	kg/m³	ISO 1183-1
Flexural modulus (2 mm/min)	1300	MPa	ISO 178
Melt flow rate (230 °C/2.16 kg)	0.30	g/10min	ISO 1133-1
Tensile stress at yield (50 mm/min)	28	MPa	ISO 527-2
Charpy impact strength, notched (-20 °C)	5	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (23 °C)	60	kJ/m²	ISO 179-1/1eA
Hardness, Shore D [1]	60	-	ISO 868
Tensile strain at yield (50 mm/min)	6	%	ISO 527-2

* Data should not be used for specification work

[1] *1s*

Processing techniques

Pellets can be applied by flat die or crosshead extrusion. The actual conditions will depend on the type of equipment used.

Processing setting	Typical value/range
Cylinder temperature	200 - 220 °C
Head temperature	210 - 220 °C
Die temperature	210 - 220 °C
Melt temperature	210 - 240 °C

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borealis representative for such particulars.

Packaging and storage

BA202E shall be stored indoors below 50°C in unopened original packaging in clean and dry environment. It is recommended to ensure proper stock rotation by using first in – first out principle. Following afore-mentioned conditions the material can be stored for a period of up to 3 years after production. However, caution shall be taken regarding the moisture level. It is recommended to measure the moisture after longer storage periods prior to processing.

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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.

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.
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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.

Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com