Polypropylene

BB412E

Polypropylene Block Copolymer for extrusion and injection

Description

BB412E is a natural, medium molecular weight, medium melt flow rate polypropylene block copolymer with an optimal mechanical properties balance resulting in high stiffness and very good impact strength both at room temperature and at low temperatures.

Applications

BB412E is recommended for pipe extrusion and injection moulding of fittings in the application field of:

Waste water discharge
Cable conduit pipes
Sewerage
Corrugated pipes
Corrugated boards

BB412E is also recommended for conduits for electrical installations where conformity to EN 50086 is not mandatory.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density (23 °C)	900 kg/m3	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	1,3 g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	2,5 g/10min	ISO 1133
Tensile Modulus	1.300 MPa	ISO 527
Tensile Strain at Yield (50 mm/min)	8 %	ISO 527
Tensile Stress at Yield (50 mm/min)	28 MPa	ISO 527
Charpy Impact Strength, notched (23 °C)	25 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	5 kJ/m²	ISO 179/1eA

Processing Techniques

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

Extrusion

Cylinder	190 - 230 °C
Head	200 - 230 °C
Die	200 - 230 °C
Melt temperature	200 - 230 °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.

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Storage
BB412E should be stored in dry conditions at temperatures below 60°C and protected from UV-light. Improper storage can initiate degradation.

Safety
The product is not classified as dangerous.

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 safety, recovery and disposal of the product. For more information, contact your Borealis 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.

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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.

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