



**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	Test Method
Data should not be used for specification work		
Density (23 °C)	900 kg/m <sup>3</sup>	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/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	5 kJ/m <sup>2</sup>	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.

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