

Polypropylene

BB412E

Polypropylene Block Copolymer for Pipe Applications

Description

BB412E is a natural, medium molecular weight polypropylene block copolymer with balanced mechanical properties, resulting in high stiffness and very good impact strength at room temperature and at low temperatures.

Applications

BB412E is intended for following applications:

| | |
|---------------------------|-----------------------|
| Cable conduits | Sewerage |
| Non-pressure pipe systems | Waste water discharge |
| Corrugated boards | |

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

Physical properties

| Property | Typical value * | Unit | Test method |
|--|-----------------|-------------------|---------------|
| Density | 900 | kg/m ³ | ISO 1183-1 |
| Melt flow rate (230 °C/2.16 kg) | 1.30 | g/10min | ISO 1133-1 |
| Melt flow rate (190 °C/5 kg) | 2.5 | g/10min | ISO 1133-1 |
| Tensile strain at yield (50 mm/min) | 8 | % | ISO 527-2 |
| Tensile modulus | 1300 | MPa | ISO 527-2 |
| Tensile stress at yield (50 mm/min) | 28 | MPa | ISO 527-2 |
| Charpy impact strength, notched (23 °C) | 15 | kJ/m ² | ISO 179-1/1eA |

* Data should not be used for specification work

Processing techniques

The actual conditions will depend on the application and type of equipment used. Please contact your local Borealis representative for specific recommendations.

| Processing setting | Typical value/range |
|----------------------|---------------------|
| Cylinder temperature | 190 - 230 °C |
| Head temperature | 200 - 230 °C |
| Die temperature | 200 - 230 °C |
| Melt temperature | 200 - 230 °C |

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.

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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.

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