# PRODUCT DATA SHEET

## Polypropylene

# BEC5012

### Polypropylene Block Copolymer

## Description

BEC5012 is a high molecular weight, low flow rate polypropylene block copolymer with very high impact strength.

## Applications

BEC5012 is intended for following applications:

Non-pressure pipe systems

Sheets and profiles

BEC5012 is recommended for non-pressure pipes and fittings, structured wall pipes, profiles and sheets.

## Physical properties

| Property | Typical value * | Unit | Test method |
|---|---|---|---|
| Flexural modulus | 1400 | MPa | ISO 178 |
| Melt flow rate (230 °C/2.16 kg) | 0.25 | g/10min | ISO 1133-1 |
| Charpy impact strength, notched (-20 °C) | 5 | kJ/m² | ISO 179-1/1eA |
| Charpy impact strength, notched (23 °C) | 80 | kJ/m² | ISO 179-1/1eA |
| Tensile strain at yield (50 mm/min) | 12 | % | ISO 527-2 |
| Tensile stress at yield (50 mm/min) | 28 | MPa | ISO 527-2 |

* Data should not be used for specification work

## Processing techniques

The actual conditions will depend on the type of equipment used. They will also depend on size and wall thickness of the pipe produced.

| 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 |

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

BEC5012 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.

## 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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