# PRODUCT DATA SHEET

## Polypropylene

# PP Y40-04

## Post-Industrial Recyclate

**EverMinds™**

Accelerating Action
on Circularity

## Description

PP Y40-04 is a black polypropylene (PP) post-industrial recyclate supplied in pellets. This product is an ideal PP used where sustainability and circularity matter. PP Y40-04 consists of post-industrial waste coming from Borealis plants.
Due to the nature of recyclates, some variation in colour can be observed between batches.

| | |
|---|---|
| Good stiffness / impact balance | Low odour |
| Good demoulding properties | Availabble in homogenised 24-tons |

## Applications

PP Y40-04 is intended for following applications:

Injection moulding applications

## Physical properties

| Property | Typical value * | Unit | Test method |
|---|---|---|---|
| Density | 970 | kg/m³ | ISO 1183 |
| Melt flow rate ( 230 °C/2.16 kg) | 40 | g/10min | ISO 1133 |
| Ash content ( 650°C) | 10 | % | ISO 1172 |
| Moisture content | <0.1 | % | Moisture analyzer (infrared) |
| Tensile modulus ( 1 mm/min) | 1600 | MPa | ISO 527-2 |
| Tensile stress at yield ( 50 mm/min) | 25 | MPa | ISO 527-2 |
| Charpy impact strength, notched ( 23 °C) | 4 | kJ/m² | ISO 179-1/1eA |

\* Data should not be used for specification work

## Processing techniques

Following moulding parameters should be used as guideline:

| Processing setting | Typical value/range |
|---|---|
| Melt temperature | 210 - 260 °C |
| Holding pressure [1] | 200 - 500 bar |
| Mould temperature | 30 - 40 °C |
| Injection speed | High |

[1] *Minimum to avoid sink marks.*

Shrinkage 1 - 2%, depending on wall thickness and moulding parameters.

## 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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die Aufwerter – the Upcyclers

**BOREALIS**

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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

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