

Polypropylene

NAV128 Y10-04

Post-Industrial Recyclate



Accelerating Action
on Circularity

Description

NAV128 Y10-04 is a black polypropylene post-industrial recyclate (rPP) supplied in pellets. This product is an ideal PP used where sustainability and circularity matter. NAV128 Y10-04 consists of post-industrial waste coming from Borealis plants. Due to the nature of recyclates, some variation in colour can be observed between batches.

Typical characteristics

NAV128 Y10-04 can be described with following typical characteristics:

- Good stiffness / impact balance
- Low odour
- Good demoulding properties
- Available in homogenised 12-tons

Applications

NAV128 Y10-04 is intended for following applications:

- Injection moulding applications

Physical properties

| Property | Typical value * | Unit | Test method |
|---|-----------------|-------------------|------------------------------|
| Density | 990 | kg/m ³ | ISO 1183 |
| Melt flow rate (230 °C/2.16 kg) | 10 | g/10min | ISO 1133 |
| Moisture content | <0.1 | % | Moisture analyzer (infrared) |
| Ash content (950°C) ¹ | 10 | % | ISO 1172 |
| Tensile modulus (1 mm/min) | 1500 | MPa | ISO 527-2 |
| Tensile stress at yield (50 mm/min) | 25 | MPa | ISO 527-2 |
| Charpy impact strength, notched (23 °C) | 5.5 | kJ/m ² | ISO 179-1/1eA |

* Data should not be used for specification work

¹ Refers to filler content

Processing techniques

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2 hours at 80 °C. This product is easy to process with standard injection moulding machines.

Following moulding parameters should be used as guideline:

| Processing setting | Typical value/range |
|-------------------------------|---------------------|
| Melt temperature | 210 - 260 °C |
| Holding pressure ² | 200 - 500 bar |
| Mould temperature | 30 - 40 °C |
| Injection speed | High |

² Minimum to avoid sink marks.

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

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Packaging and storage

NAV128 Y10-04 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result 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.

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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