

Polypropylene

NAV128 Y20-02

Post-Industrial Recyclate



Accelerating Action  
on Circularity

Description

NAV128 Y20-02 is a transparent polypropylene (PP) post-industrial recyclate supplied in pellets. This product is an ideal PP used where sustainability and circularity matter. NAV128 Y20-02 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 Y20-02 can be described with following typical characteristics:

- Good stiffness / impact balance
- Low odor
- Good demolding properties
- Available in homogenized 12-ton batches

Applications

NAV128 Y20-02 is intended for following applications:

- Injection-moulded non-food applications

Physical properties

Property	Typical value *	Unit	Test method
Density	900	kg/m <sup>3</sup>	ISO 1183
Melt flow rate (230 °C/2.16 kg)	20	g/10min	ISO 1133
Moisture content	<0.1	%	Moisture analyzer (infrared)
Ash content (950°C) <sup>1</sup>	<1	%	ISO 1172
Tensile modulus (1 mm/min)	1500	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	30	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	3	kJ/m <sup>2</sup>	ISO 179-1/1eA

<sup>1</sup> refers to filler content

\* Data should not be used for specification work

Processing techniques

Following molding parameters should be used as guideline:

Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure	200 - 500 bar
Mold temperature	30 - 40 °C
Injection speed	high

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## NAV128 Y20-02

### Packaging and storage

NAV128 Y20-02 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 odor generation and color changes and can have negative effects on the physical properties of this product.

The shelf life is a maximum of one year after production. The shelf life of a product can be extended after retesting selected material properties and verifying that the test results are still within the product specification. It is recommended to measure the moisture after longer storage periods prior to processing.

### 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](http://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](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

### Disclaimer

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