

Polyethylene

NAV117

Post-Consumer/Post-Industrial Recyclate



Accelerating Action
on Circularity

Description

NAV117 is a black post-consumer/post-industrial polyethylene recyclate (rPE) supplied in pellet form for injection moulding applications. NAV117 is an ideal PE used where sustainability and circularity matter. The post-consumer recyclate includes a large part of pre-sorted municipal (household) waste, the post-industrial recyclate consists of post-industrial waste from Borealis plants. Due to the nature of recyclates, some variation in colour and other product properties can be observed between batches.

Cas No. 9002-88-4

Typical characteristics

NAV117 can be described with following typical characteristics:

Black (includes black colour masterbatch) Available in homogenised 24-ton truckloads
Pellet shape: lenticular Filtration: 100 µm

Applications

NAV117 is intended for following applications:

- Construction buckets
- Mortar troughs

Physical properties

Property	Typical value *	Unit	Test method
Density	0.950	g/cm ³	ISO 1183
Melt flow rate (190 °C/2.16 kg)	2.8	g/10 min	ISO 1133-1
Bulk density	520	g/l	ISO 1133-1
Moisture content ¹	≤ 0.06	%	

* Data should not be used for specification work

¹ internal method

Processing techniques

NAV117 can be easily processed with conventional injection moulding machines. Following parameters should be used as guideline:

Processing setting	Typical value/range
Melt temperature	160 - 190 °C
Holding pressure	200 - 500 bar
Mould temperature	30 - 40 °C
Shrinkage ²	1 - 2 %

² depending on wall thickness and moulding paramters.

Packaging and storage

NAV117 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.

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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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