

Polyethylene

NAV108

Post-Consumer Recyclate



Accelerating Action
on Circularity

Description

NAV108 is a black low density polyethylene post-consumer recyclate (rLDPE) supplied in pellet form for pipe applications. NAV108 is an ideal LDPE used where sustainability and circularity matter. NAV108 is a post-consumer recyclate including a large part of recycled post-consumer plastic waste coming from pre-sorted municipal (household) waste. NAV108 is part of the EuCertPlast certificate according to the European Standard EN 15343:2007 (certificate available upon request).

Due to the nature of recyclates, some variation in color can be observed between batches.

Cas No. 9002-88-4

Typical characteristics

NAV108 can be described with following typical characteristics:

Black (includes black masterbatch)

Filtration: 100 µm

Available in homogenized 24-ton truckloads

Applications

NAV108 is intended for following applications:

- Garden hoses
- Irrigation pipes
- Corrugated pipes

Physical properties

Property	Typical value *	Unit	Test method
Density	0.945	g/cm ³	ISO 1183
Melt flow rate (190 °C/2.16 kg)	0.7	g/10 min	ISO 1133-1
Moisture content ¹	≤ 0.06	%	
Bulk density	510	g/l	ISO 60
Hardness, Shore D	48	-	ISO 868

¹ internal method

* Data should not be used for specification work

Processing techniques

NAV108 is easily processed on conventional extruders.

Following extrusion parameters should be used as guideline:

Processing setting	Typical value/range
Melt temperature	160 - 190 °C

Due to differences in screw and die head designs the optimum temperature adjustments are individual and should be evaluated for each production line.

Packaging and storage

NAV108 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 of a product can be extended after properties are re-testing 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.

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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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