

PRODUCT DATA SHEET

Polyethylene

NAV 122 HD

High Density Polyethylene



Accelerating Action
on Circularity

Description

NAV 122 HD is homogenised high density polyethylene (HDPE) available in different colours in pellet form for several applications in the plastic industry with feedstock coming from Borealis plants. Due to the nature of these materials, some variation in colour can be observed between batches.

Cas No. 9002-88-4

Typical characteristics

NAV 122 HD can be described with following typical characteristics:

Available in 24-ton truckloads
Pellet shape: lenticular

Applications

NAV 122 HD is intended for following applications:

Pipe applications
Blow moulding
Injection moulding

Physical properties

Property	Typical value *	Unit	Test method
Density	0.940 - 0.970	g/cm ³	ISO 1183-1
Melt flow rate (190 °C/5 kg)	0.1 - 50	g/10 min	ISO 1133-1
Melt flow rate (190 °C/5 kg)	0.01 - 20	g/10min	ISO 1133-1
Bulk density	540	g/l	ISO 60
Moisture content ¹	≤ 0.05	%	

* Data should not be used for specification work

¹ internal method

Processing techniques

NAV 122 HD is easily processed on conventional extruders and injection/blow moulding machines.

Following parameters should be used as guidelines:

Melt temperature 160 - 190 °C.

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

Packaging and storage

NAV 122 HD 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.

Polyethylene

NAV 122 HD

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

The product(s) mentioned herein are subject to material inconsistencies. mtm/Ecoplast makes no warranties which extend beyond the description contained herein and to the best of our knowledge, the information is accurate and reliable as of the date of publication. Because of the multitude of possible influences during the use and application of our products, the information included does not release customers and users from the obligation to examine and test them carefully. Please note that nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose as mtm/Ecoplast do not know the origin of the product. Where necessary, the customer is recommended to obtain a feedstock release from the customer. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of any mtm/Ecoplast product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above. The product(s) mentioned herein are not intended to be used for food contact, drinking water contact, medical, pharmaceutical or healthcare applications and we do not support their use for such applications. Otherwise, our General Terms and Conditions of Sale apply.