

Polyethylene

NAV 159-1/-2/-3

Post-Industrial Recyclate



Description

NAV 159-1/-2/-3 is a post-industrial recycled Polyethylene (rPE) supplied in different colours in pellet form for injection moulding applications. This product is an ideal PE used where sustainability and circularity matter. It is a post-industrial recyclate including recycled post-industrial material coming from Borealis plants.

It is not intended for use in food contact, potable water contact, pharmaceutical and medical applications.

CAS-No. 9002-88-4

Applications

NAV 159-1/-2/-3 can be used in injection moulding applications.

NAV 159-1 is natural coloured.

NAV 159-2 is black coloured.

NAV 159-3 is typically grey coloured.

Special Features

Post-Industrial Recyclate

Good stiffness and impact balance

Low odour

NAV 159-2 includes high end black coloured masterbatch

Homogenised 24 tonne- truckloads

Pellet shape: lenticular

Filtration: 250 µm

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	950 kg/m ³	ISO 1183
Bulk density	520 g/l	ISO 60:1977
Melt Flow Rate (190 °C/5 kg)	6 - 10 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	850 MPa	ISO 527-2
Tensile Strain at Break (50 mm/min)	80 %	ISO 527-2
Charpy Impact Strength, notched (23 °C)	6,5 kJ/m ²	ISO 179/1eA

Processing Techniques

This product is easy to process with standard extrusion conditions.

Following parameters should be used as guidelines:

Melt temperature	170 - 200 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	30 - 40 °C	

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

Storage

NAV 159-1/-2/-3 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

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Safety

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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Related Documents

The following related documents are available on request.

"Safety data sheet" / "Product safety information sheet"
Compliance statement with REACH Registration Obligations

Disclaimer

Recycled plastics are subject to material inconsistencies. 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 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 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. Due to nature of recyclates, some variation in colour and other product properties can be observed between batches. Otherwise, our General Terms and Conditions of Sale apply.