PRODUCT DATA SHEET

Post-Consumer Recyclate

NAV103-100

Low Density Polyethylene

Description

NAV103-100 is a mixed-coloured low density polyethylene post-consumer recyclate (rLDPE) supplied in pellet form for blown film applications. This product is an ideal LDPE used where sustainability and circularity matter. NAV103-100 is a post-consumer recyclate including a large part of recycled post-consumer plastic waste coming from pre-sorted municipal (household) waste. It is part of the EuCertPlast certificate according to the European Standard EN 15343:2007 (certificate available upon request).

Pellet shape: lenticular

Filtration: 100 µm

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

Cas No. 9002-88-4

Mixed-coloured Available in homogenised 24-ton truckloads

Applications

NAV103-100 is intended for following applications:

- Garbage bags
- Construction films
- Industrial films

Physical properties

Property	Typical value *	Unit	Test method
Density	0.945	g/cm³	
MFR 190/2,16	0.7	g/10 min	
Moisture content	< 0.07	%	
Bulk density	500	g/l	

* Data should not be used for specification work

Film properties

Property	Typical value *	Unit	Test method
Tensile Modulus MD	240	MPa	ISO 527-3
Tensile Modulus TD	265	MPa	ISO 527-3
Tensile strength MD	12	MPa	ISO 527-3
Tensile strength TD	12	MPa	ISO 527-3
Tensile strain at break MD	230	%	ISO 527-3
Tensile strain at break TD	410	%	ISO 527-3
Tear resistance - Elmendorf	1.3	Ν	ISO 6383-2
Tear resistance - Elmendorf	5.5	Ν	ISO 6383-2
Dart drop	35	g * D	ISO 7765-1

* Data should not be used for specification work

Processing techniques

NAV103 is easily processed on conventional extruders. Following extrusion parameters should be used as guideline:







Post-Consumer Recyclate

NAV103-100

Processing setting	Typical value/range

Melt temperature

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

160 - 190 °C

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

Recycled plastics 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.

Ecoplast Kunststoffrecycling GmbH | Untere Aue 21 | A-8410 Wildon | Austria Tel. +43(0)3182-3355 | Fax +43(0)3182-3355-18 Website info@ecoplast.com | www.ecoplast.com



