

Polyethylene

NAV 101

Post-Consumer Recyclate



Description

NAV 101 is a transparent post-consumer Low Density recyclate (rLDPE) supplied in pellet form for high-end blown film applications. This material is an ideal LDPE used where sustainability and circularity matter. It is a post consumer recyclate including a large part of recycled Post-Consumer plastic waste coming from pre-sorted municipal (household) waste. It is a part of EuCertPlast certificate according to European Standard EN15343:2007 (certificate available upon request). It is not intended for use in food contact, potable water contact, pharmaceutical and medical applications.

Applications

NAV 101 is used for production of blown film for high end non food contact application where circularity and sustainability are key parameters.

Collation shrink film
 Shrink film
 Lamination films for non food contact primary packaging
 Non food contact consumer packaging where transparency and toughness are key parameters
 Secondary and tertiary packaging where transparency is key parameter

Note: Minor quantity of BorShape™ LLDPE significantly boosts mechanical performances of this grade, helping convertors, brand owners and retailers meeting their sustainability goals without compromising key mechanical properties for similar packaging performance.

Special Features

100% Post Consumer Recyclate including a large part of recycled Post-Consumer plastic waste coming from pre-sorted municipal (household) waste
 is EuCertPlast certified

High transparency
 Homogenised 24 tonne- truckloads
 Pellet shape: lenticular
 Filtration: 100 µm

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	925 kg/m ³	ISO 1183
Bulk density	490 g/l	ISO 60:1977
Melt Flow Rate (190 °C/2,16 kg)	0,75 g/10min	ISO 1133
Residual moisture content ¹	< 0,05 %	Internal method

¹ at time of packaging

Processing Techniques

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

NAV 101 is easily processed on conventional extruders. Following parameters should be used as guidelines:

Melt temperature 160 - 190 °C

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Storage

NAV 101 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.

Safety

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product.

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.

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. Please contact your Borealis representative for more details on recycling.

Related Documents

The following related documents are available on request.

"Safety data sheet" / "Product safety information sheet"

Compliance statement with REACH Registration Obligations

Statement on Borealis product packaging compliance to the EU Directive 94/62/EC on Packaging and Packaging Waste

Statement on chemicals, regulations and standards

Disclaimer

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