Polyethylene

BorShape™ FX1003

High Alpha Olefin Terpolymer Polyethylene for blown film

Preliminary

Description

BorShape™ FX1003 is a high alpha olefin terpolymer polyethylene blown film grade made with proprietary Borealis Borstar® 3G Technology combining unprecedented process ability together with outstanding stiffness/toughness balance. BorShape FX1003 outstanding mechanical performance allows further downgauging in flexible packaging but also support maximisation of Post Consumer recycled polyethylene content leading to increased sustainability of the final packaging.

CAS-No. 60785-11-7

Applications

BorShape FX1003 is designed to be used to bring strength and stability in:

Flexible packaging
Collation shrink
Heavy-duty bags
Medium duty bags
Frozen food packaging
Form fill and seal film
MDO film (Monomaterial solution)
Non food contact film with high content of Post Consumer Recyclate

Additives

BorShape FX1003 contains antioxidant.

Special Features

BorShape FX1003 allows high Post Consumer Recyclate incorporation in non food contact application without thickness increase. BorShape FX1003 is ideally used as stiffness provider together with NAV101 and/or CWT100LG Post Consumer Recycled Low Density Polyethylene in high end transparent non food contact applications. BorShape FX1003 tailor-made design makes the material perfectly suited for MDO process.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density (Base Resin)	941 kg/m³	ISO 1183
Melt Flow Rate (190 °C/5 kg)	1,50 g/10min	ISO 1133
Melt Flow Rate (190 °C/21 kg)	35,0 g/10min	ISO 1133
Melting temperature (DSC)	128 °C	ISO 11357-3

Processing Techniques

BorShape FX1003 is easily processed on conventional extruders.

Recommended extrusion temperature is 190°C-210°C.

Storage

BorShape FX1003 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 the Safety data sheet (SDS) / Product safety information sheet (PSIS) for details on various aspects of safety, recovery and disposal of the products. For more information, contact your Borealis representative.

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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.

Related Documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available upon request.

Issuer:
Marketing Consumer Products / Barbara Mandard
Product Management / Gabriele Poinsitt

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

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