PRODUCT DATA SHEET

POLYETHYLENE
ANTEO™ FK1826

BORSTAR® BIMODAL TERPOLYMER LLDPE FOR HIGH PERFORMANCE FLEXIBLE PACKAGING

DESCRIPTION

Anteo™ FK1826 is a grade which is produced using the proprietary Borstar® bimodal terpolymer technology combining outstanding sealing performance with easy processability, good optics and superior mechanical properties. Film made with **Anteo™ FK1826** exhibits unique combination of low seal initiation temperature (SIT), high hot tack force and excellent puncture and tear properties. **Anteo™ FK1826** used in combination with Borstar® PE / BorShape™ PE / LDPE / PP products offer best in class high performance transparent flexible packaging solution with potential for down gauging. **Anteo™ FK1826** contains Slip, Antiblock, Antioxidant and processing Aid (PPA).

CAS-No. 60785-11-7

APPLICATIONS

Lamination	Stretch Hood	Food Packaging
Liquid Packaging	Frozen Food Packaging	Stand up Pouches
Agriculture Film	Lamitube	Shrink Film
Multilayer Packaging Film	Stretch Hood	Impact modifier

KEY FEATURES

Easy process ability
Excellent Mechanical Strength
Excellent Low Temperature Performance
Superior Puncture Resistance
Excellent Organoleptic Properties
Balanced Tear Strength
Good Optics
Low COF
Outstanding Seal Performance (low SIT, High Hot Tack Force and wide sealing window)

PHYSICAL PROPERTIES

Property Typical Value*	Typical Value	Test Method
Density	918 kg/m3	ASTM D 792
Melt Flow Rate (190°C/2.16kg)	1.5 g/10min	ASTM D1238
Melting Temperature	122 °C	ISO 11357/03
Vicat Softening Point	102 °C	ASTM D 1525

*Typical properties and data should not be used for specification work

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FILM PROPERTIES

Anteo™ FK1826 film properties are measured on 40 micron blown film produced on a lab scale extruder with processing conditions: BUR = 2.5:1, FLH = 3 DD, Die gap =1.8mm

Property**	Typical Value*	Test Method
Tensile Strength at Break (MD/TD)	52/50 MPa	ISO 527-3
Elongation at Break (MD/TD)	650/700 %	ISO 527-3
Tensile Strength at Yield (TD)	11 MPa	ISO 527-3
Tensile Modulus (MD/TD)	210/220 MPa	ISO 527-3
Tensile Modulus (1 % Secant) (MD/TD)	190/200 MPa	ASTM D 882
Elmendorf tear strength (MD/TD)	550/700 g	ASTM D 1922
Dart Drop	>1000 g	ASTM D 1709/A
Coefficient of Friction (Dynamic)	≤ 0.20	ASTM D 1894
Haze**	8%	ASTM1003
Gloss (45°)**	60	ASTM D 2457

*Typical properties and data should not be used for specification work
** Blend with 10% LDPE.

PROCESSING CONDITIONS

Anteo™ FK1826 can be processed in most types of blown film equipment such as LDPE, LLDPE or HDPE extruders. **Anteo™ FK1826** is well suited for co-extrusion in combination with Borstar® PE/ BorShape™ PE / LDPE / PP products. Recommended extrusion temperature is 180 - 210°C. Die gap of 1.4 - 2.2 mm will give the best balance between extruder pressure and physical properties in the film. **Anteo™ FK1826** enables energy saving by processing at lower temperature and motor load with excellent bubble stability.
To boost optical properties of film made with **Anteo™ FK1826**, it is recommended to blend with minimum 5% LDPE.

FOOD CONTACT REGULATIONS

Anteo™ FK1826 fulfils the food contact regulations in most countries. If required, contact your Borouge representative for a certificate.

STORAGE

This product should be stored in dry conditions at temperature bellow 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 physical properties of this product.
More information on storage can be found in Safety Information Sheet (SIS) for this product.

SAFETY

The product is not classified as a hazardous mixture.
Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.
Please see our Safety Information Sheet (SIS) for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borouge 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

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Safety Information Sheet
Statement on chemicals, regulations and standards
Statement on compliance to regulations for drinking water pipes

STANDARDS

Borouge is certified to various ISO standards, please refer to Borouge.com for more information.

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