

## CLEARFLEX®

## FG 306 A

LLDPE

Linear low density polyethylene

Clearflex FG 306 A is a hexene copolymer linear low density polyethylene (C6-LLDPE), additivated with antioxidant, antiblocking and processing aid, suitable for blown film extrusion.

Film manufactured with Clearflex FG 306 A are characterised by good balance between rigidity, impact resistance and tear resistance (Elmendorf).

### Main Applications

Clearflex FG 306 A is recommended for the production of heavy duty bags, both in coextrusion and in blend with LDPE.

### Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 kg)	0.8	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	-	g/10min	ISO 1133
Melt Flow Rate (190 °C/21.6 kg)	-	g/10min	ISO 1133
Density	0.926	g/cm <sup>3</sup>	ISO 1183
Melting Point	127	°C	Internal method
Brittleness temperature	<- 70	°C	ASTM D 746
Vicat softening point (1 kg)	110	°C	ISO 306/A
Film Properties *	Value	Unit	Test Method
Tensile stress at yield MD	12	MPa	ISO 527-3
Tensile stress at yield TD	13	MPa	ISO 527-3
Tensile stress at break MD	45	MPa	ISO 527-3
Tensile stress at break TD	36	MPa	ISO 527-3
Elongation at break MD	550	%	ISO 527-3
Elongation at break TD	740	%	ISO 527-3
1% Secant modulus MD	190	MPa	ISO 527-3
1% Secant modulus TD	225	MPa	ISO 527-3
Elmendorf tear resistance MD	82	N/mm	ISO 6383-2
Elmendorf tear resistance TD	250	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	120	g	ISO 7765-1/A
Dynamic coefficient of friction (COF)	> 0.5	-	ISO 8295
Haze	13	%	ISO 14782
Gloss, 45°	52	%	ASTM D 2457
Recommended film thickness	10 ÷ 50	micron	-



## Processing notes

Clearflex FG 306 A is easily processable using blown film technology. Melt temperature should be between 190°C and 230°C. Recommended thickness: 10 - 50 µm.

## Storage and Handling

Clearflex FG 306 A is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletised polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping should be practised throughout your facility.

The product should be stored in dry conditions at temperatures below 50°C and protected from sunlight. Improper storage can initiate degradation which results in odour generation, colour changes and can have negative effects on the physical properties of the product.

Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

## Availability

Contact the versalis sales office nearest to you regarding availability and your specific application requirements.

## Food Contact Status

Clearflex FG 306 A complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. Certificates of compliance are available upon request.

