

Clearflex® FG 306

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

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

Main Application

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

General Information			
Additive	Antiblock		
	Antioxidant		
	Processing Aid		
Features	Antiblocking		
	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Tear Strength		
	Hexene Comonomer		
	Low Density		
	Medium Rigidity		
Uses	Blending		
	Film		
	Heavy-duty Bags		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Coextrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	> 0.50		ISO 8295

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Film Thickness - Recommended / Available	10 to 50μm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 25 μm, Blown Film	190	MPa	
1% Secant, TD : 25 μm, Blown Film	225	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 μm, Blown Film	12.0	MPa	
TD : Yield, 25 μm, Blown Film	13.0	MPa	
MD : Break, 25 μm, Blown Film	45.0	MPa	
TD : Break, 25 μm, Blown Film	36.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 μm, Blown Film	550	%	
TD : Break, 25 μm, Blown Film	740	%	
Dart Drop Impact ¹ (25 μm, Blown Film)	120	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 μm	82.0	kN/m	
TD : 25.0 μm	250.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	110	°C	ISO 306/A
Melting Temperature	127	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	52		ASTM D2457
Haze (25.0 μm, Blown Film)	13	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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