

Clearflex® FG 106

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex FG 106 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants, suitable for blown film extrusion.

Film manufactured with Clearflex FG 106 are characterised by excellent optical properties (haze and gloss), optimum sealing performances and high mechanical properties.

Main Application

Clearflex FG 106 is recommended for the production of agricultural film, blown stretch film coextruded or blended with LDPE.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Heat Seal		
	Hexene Comonomer		
	High Gloss		
	Low Density		
Uses	Opticals		
	Agricultural Applications		
	Blending		
	Film		
Agency Ratings	Stretch Wrap		
	EU Food Contact, Unspecified Rating		
	Pellets		
Processing Method	Coextrusion		
Physical	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	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	180	MPa	
1% Secant, TD : 25 µm, Blown Film	210	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 µm, Blown Film	9.00	MPa	
TD : Yield, 25 µm, Blown Film	10.0	MPa	
MD : Break, 25 µm, Blown Film	50.0	MPa	
TD : Break, 25 µm, Blown Film	45.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	600	%	
TD : Break, 25 µm, Blown Film	700	%	
Dart Drop Impact ¹ (25 µm, Blown Film)	160	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 µm	130.0	kN/m	
TD : 25.0 µm	230.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	101	°C	ISO 306/A
Melting Temperature	125	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	60		ASTM D2457
Haze (25.0 µm, Blown Film)	10	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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