Clearflex® FF 106

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex FF 106 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants, suitable for blown film extrusion.
Film manufactured with Clearflex FF 106 are characterised by high optical properties (haze, gloss), optimum impact, tear and puncture resistance.
Main Application
Clearflex FF 106 is recommended for the production of blown stretch film, low gauge agricultural, in coextrusion or blending with LDPE. Because of its excellent bubble stability, Clearflex FF 106 is the ideal choice for the production of low gauge film where high mechanical properties are required.

General Information	
Additive	Antioxidant
Features	Antioxidant Copolymer Food Contact Acceptable Good Tear Strength Hexene Comonomer High Gloss Opticals Puncture Resistant
Uses	Agricultural Applications Blending Film Stretch Wrap
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Blown Film Coextrusion

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	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	190	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	550	%	
TD : Break, 25 µm, Blown Film	700	%	
Dart Drop Impact [1] (25 µm, Blown Film)	190	g	ISO 7765-1
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 25.0 µm	150.0	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	103	°C	ISO 306/A
Melting Temperature	125	°C	Internal Method

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	65		ASTM D2457
Haze (25.0 µm, Blown Film)	8.0	%	ISO 14782

Extrusion	Nominal Value	Unit
Melt Temperature	190 to 230	°C

NOTE	
1.	F50
2.	Blown Film

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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