Clear-Flex® FG 106 A

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex FG 106 A is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants, suitable for blown film extrusion. Film manufactured with Clearflex FG 106 A are characterised by excellent optical properties (haze and gloss), optimum sealing performances and high mechanical properties.

Main Applications

Clearflex FG 106 A thanks to high purity and low diffusivity of the additives, is particularly suitable in applications such as food packaging. Clearflex FG 106 A is recommended for the production of agricultural film, blown stretch film coextruded or blended with LDPE.

General Information			
Additive	Antioxidation		
Features	High purity		
	Optical		
	hexene comonomer		
	Antioxidation		
	Compliance of Food Exposure		
Uses	Blown Film		
	Films		
	Agricultural application		
	Food packaging		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
	Co-extruded film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	1.1	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Dynamic, Blown	> 0.50		150 8295
Films	Nominal Value	l Init	Test Method
Film Thickness Tastad			
Film Thickness - Testeu	20 10 to 50 um	µ	
	το το 50 μπι		
	100		150 527-3
1% secant, MD: 25 μm, blown film	180	МРа	ISO 527-3
1% secant, TD: 25 µm, blown film	210	MPa	ISO 527-3

Tensile Stress			ISO 527-3
MD: Yield, 25 µm, blown film	9.00	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	10.0	MPa	ISO 527-3
MD: Broken, 25 µm, blown film	50.0	MPa	ISO 527-3
TD: Broken, 25 µm, blown film	45.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	600	%	ISO 527-3
TD: Broken, 25 µm, blown film	700	%	ISO 527-3
Dart Drop Impact (25 µm, Blown Film)	160	g	ISO 7765-1/A
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 25.0 µm	130.0	kN/m	ISO 6383-2
TD : 25.0 µm	230.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Thermal Brittleness Temperature	Nominal Value < -70.0	Unit °C	Test Method ASTM D746
Thermal Brittleness Temperature Vicat Softening Temperature	Nominal Value < -70.0	Unit °C °C	Test Method ASTM D746 ISO 306/A
Thermal Brittleness Temperature Vicat Softening Temperature Melting Temperature	Nominal Value < -70.0	Unit °C °C °C	Test Method ASTM D746 ISO 306/A Internal method
Thermal Brittleness Temperature Vicat Softening Temperature Melting Temperature Optical	Nominal Value< -70.0	Unit °C °C °C Unit	Test Method ASTM D746 ISO 306/A Internal method Test Method
ThermalBrittleness TemperatureVicat Softening TemperatureMelting TemperatureOpticalGloss (45°, 25.0 µm, Blown Film)	Nominal Value< -70.0	Unit °C °C °C Unit	Test Method ASTM D746 ISO 306/A Internal method Test Method ASTM D2457
ThermalBrittleness TemperatureVicat Softening TemperatureMelting TemperatureOpticalGloss (45°, 25.0 µm, Blown Film)Haze (25.0 µm, Blown Film)	Nominal Value < -70.0	Unit °C °C °C Unit %	Test Method ASTM D746 ISO 306/A Internal method Test Method ASTM D2457 ISO 14782
ThermalBrittleness TemperatureVicat Softening TemperatureMelting TemperatureOpticalGloss (45°, 25.0 µm, Blown Film)Haze (25.0 µm, Blown Film)Extrusion	Nominal Value< -70.0	Unit °C °C °C Unit % Unit	Test Method ASTM D746 ISO 306/A Internal method Test Method ASTM D2457 ISO 14782
ThermalBrittleness TemperatureVicat Softening TemperatureMelting TemperatureOpticalGloss (45°, 25.0 µm, Blown Film)Haze (25.0 µm, Blown Film)ExtrusionMelt Temperature	Nominal Value < -70.0	Unit °C °C °C Unit % Unit Unit	Test Method ASTM D746 ISO 306/A Internal method Test Method ASTM D2457 ISO 14782
ThermalBrittleness TemperatureVicat Softening TemperatureMelting TemperatureOpticalGloss (45°, 25.0 μm, Blown Film)Haze (25.0 μm, Blown Film)ExtrusionMelt TemperatureNOTE	Nominal Value < -70.0	Unit °C °C °C Unit % Unit Unit	Test Method ASTM D746 ISO 306/A Internal method Test Method ASTM D2457 ISO 14782

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