

# Clearflex® FH 50

Linear Medium Density Polyethylene

Versalis S.p.A.

## Message:

Clearflex FH 50 is a linear medium density polyethylene, with antioxidants, suitable for blown film extrusion.

Films manufactured with Clearflex FH 50 are characterised by a good balance between toughness and rigidity, have high temperature resistance together with optimum sealing properties.

### Main Application

Due to its high mechanical properties and excellent processability, Clearflex FH 50 is recommended in coextrusion for the production of film having good rigidity. Moreover, its very low gel content makes the resin ideal for lamination.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Heat Seal		
	Good Processability		
	Good Toughness		
	High Heat Resistance		
	Low Gel		
	Medium Density		
	Medium Rigidity		
Uses	Film		
	Laminates		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.936	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7	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	450	MPa	
1% Secant, TD : 25 µm, Blown Film	500	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 µm, Blown Film	16.0	MPa	
TD : Yield, 25 µm, Blown Film	18.0	MPa	
MD : Break, 25 µm, Blown Film	35.0	MPa	
TD : Break, 25 µm, Blown Film	25.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	650	%	
TD : Break, 25 µm, Blown Film	750	%	
Dart Drop Impact <sup>1</sup> (25 µm, Blown Film)	50	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD : 25.0 µm	8.0	kN/m	
TD : 25.0 µm	100.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	117	°C	ISO 306/A
Melting Temperature	128	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	55		ASTM D2457
Haze (25.0 µm, Blown Film)	18	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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