

# Clearflex® FG B3

Very Low Density Polyethylene

Versalis S.p.A.

## Message:

Clearflex FG B3 is a linear low density polyethylene, with antioxidants, slip and antiblocking agents, suitable for blown film technology. The product is characterised by a very low density and a high molecular weight.

Films made by Clearflex FG B3 are highly transparent, have a good sealing, even at low temperature, and mechanical properties. It represent the version with slip and antiblock of Clearflex FG B0.

### Main Application

Clearflex FG B3 is recommended for coextrusion to produce lamination film and is used in blend or coextrusion because of its unique properties.

General Information			
Additive	Antiblock		
	Antioxidant		
	Slip		
Features	Antiblocking		
	Antioxidant		
	Food Contact Acceptable		
	Good Heat Seal		
	High Clarity		
	High Molecular Weight		
	Low Density		
	Low Temperature Heat Sealability		
	Slip		
Uses	Blending		
	Film		
	Laminates		
Agency Ratings	EU Food Contact, Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blown Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.911	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method

Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.15		ISO 8295
<b>Films</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Film Thickness - Recommended / Available	10 to 50µm		
<b>Tensile Modulus</b>			<b>ISO 527-3</b>
1% Secant, MD : Blown Film	90.0	MPa	
1% Secant, TD : Blown Film	100	MPa	
<b>Tensile Stress</b>			<b>ISO 527-3</b>
MD : Yield, Blown Film	7.00	MPa	
TD : Yield, Blown Film	7.00	MPa	
MD : Break, Blown Film	35.0	MPa	
TD : Break, Blown Film	32.0	MPa	
<b>Tensile Elongation</b>			<b>ISO 527-3</b>
MD : Break, Blown Film	500	%	
TD : Break, Blown Film	700	%	
Dart Drop Impact <sup>1</sup> (Blown Film)	250	g	ISO 7765-1
<b>Elmendorf Tear Strength <sup>2</sup></b>			<b>ISO 6383-2</b>
MD	70.0	kN/m	
TD	110.0	kN/m	
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	88.0	°C	ISO 306/A
Melting Temperature	120	°C	Internal Method
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gloss (45°, Blown Film)	66		ASTM D2457
Haze (Blown Film)	7.0	%	ISO 14782
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	200 to 230	°C	
<b>NOTE</b>			
1.	F50		
2.	Blown Film		

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