

Clearflex® FG B0

Very Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex FG B0 is a linear low density polyethylene, with antioxidants, suitable for blown film technology. The product is characterised by a very low density and high molecular weight.

Films made by Clearflex FG B0 are highly transparent, have a good sealing, even at low temperature, and excellent mechanical properties.

Main Application

Clearflex FG B0 is recommended to produce blown stretch film and is used in blend or coextrusion because of its unique properties.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Heat Seal		
	High Clarity		
	High Molecular Weight		
	Low Density		
Uses	Low Temperature Heat Sealability		
	Blending		
	Film		
Agency Ratings	Stretch Wrap		
	EU Food Contact, Unspecified Rating		
	Clear/Transparent		
Appearance	Pellets		
Forms	Blown Film		
Processing Method	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.911	g/cm ³	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)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	10 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : Blown Film	90.0	MPa	
1% Secant, TD : Blown Film	100	MPa	

Tensile Stress			ISO 527-3
MD : Yield, Blown Film	7.00	MPa	
TD : Yield, Blown Film	7.00	MPa	
MD : Break, Blown Film	40.0	MPa	
TD : Break, Blown Film	32.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	500	%	
TD : Break, Blown Film	800	%	
Dart Drop Impact ¹ (Blown Film)	250	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	70.0	kN/m	
TD	110.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	88.0	°C	ISO 306/A
Melting Temperature	120	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	65		ASTM D2457
Haze (Blown Film)	6.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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