

# Clearflex® FF D0

Very Low Density Polyethylene

Versalis S.p.A.

## Message:

Clearflex FF D0 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 with Clearflex FF D0 are highly transparent, have excellent sealing properties, mainly at low temperature, and outstanding mechanical performances.

### Main Application

Clearflex FF D0 is recommended to produce 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	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	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	65.0	MPa	

1% Secant, TD : Blown Film	70.0	MPa	
Tensile Stress			ISO 527-3
MD : Yield, Blown Film	5.00	MPa	
TD : Yield, Blown Film	5.00	MPa	
MD : Break, Blown Film	50.0	MPa	
TD : Break, Blown Film	34.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	450	%	
TD : Break, Blown Film	800	%	
Dart Drop Impact <sup>1</sup> (Blown Film)	340	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD	70.0	kN/m	
TD	150.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	65.0	°C	ISO 306/A
Melting Temperature	116	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	75		ASTM D2457
Haze (Blown Film)	7.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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#### Recommended distributors for this material

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