

Clearflex® CL D0

Very Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex CL D0 is a linear low density polyethylene, with antioxidants, characterised by a very low density (VLDPE).

This resin is produced with a proprietary technology. Stretch films manufactured with Clearflex CL D0 have high stretchability, outstanding clarity and very high constancy in cling effect.

Main Application

Clearflex CL D0 is recommended as cling agent in stretch film but it is also used for applications in which soft touch and flexibility are required, for the improvement of impact resistance when used as additive in blend with other polyolefins formulated with or without mineral fillers.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Flexibility		
	Good Stretchability		
	High Clarity		
	High Cling		
	Low Density		
	Soft		
Uses	Blending		
	Film		
	Soft Touch Applications		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Cast Film)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	8 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : Cast Film	40.0	MPa	
1% Secant, TD : Cast Film	50.0	MPa	
Tensile Stress			ISO 527-3

MD : Yield, Cast Film	5.00	MPa	
TD : Yield, Cast Film	5.00	MPa	
MD : Break, Cast Film	31.0	MPa	
TD : Break, Cast Film	26.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Cast Film	600	%	
TD : Break, Cast Film	800	%	
Dart Drop Impact ¹ (Cast Film)	210	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	40.0	kN/m	
TD	82.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	54.0	°C	ISO 306/A
Melting Temperature	115	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Cast Film)	84		ASTM D2457
Haze (Cast Film)	1.5	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 270	°C	
NOTE			
1.	F50		
2.	Cast Film		

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