

Clearflex® FF 508

Linear Medium Density Polyethylene

Versalis S.p.A.

Message:

Clearflex FF 508 is an octene copolymer linear medium density polyethylene (C8-LMDPE), with antioxidants and processing aid, suitable for blown film extrusion.

Film manufactured with Clearflex FF 508 are characterised by excellent optical properties, if compared to the resin density, high rigidity and temperature resistance, optimum sealing properties.

Main Application

Due to its high optical, mechanical and sealing performances, Clearflex FF 508 is recommended for applications in which the high rigidity and the optimum gloss of this resin are a key factor (hygienic film, packaging for mineral water). The high Vicat softening point makes Clearflex FF 508 ideal for the production of film for food which is submitted to pasteurisation or sterilisation process.

General Information			
Additive	Antioxidant		
	Processing Aid		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Heat Seal		
	High Heat Resistance		
	High Rigidity		
	Octene Comonomer		
	Opticals		
Uses	Film		
	Food Packaging		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.934	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	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	400	MPa	
1% Secant, TD : 25 µm, Blown Film	450	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	50.0	MPa	
TD : Break, 25 µm, Blown Film	40.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	550	%	
TD : Break, 25 µm, Blown Film	700	%	
Dart Drop Impact ¹ (25 µm, Blown Film)	90	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 µm	35.0	kN/m	
TD : 25.0 µm	200.0	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	127	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	60		ASTM D2457
Haze (25.0 µm, Blown Film)	12	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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