Clear-Flex® FF 506

Linear Medium Density Polyethylene

Versalis S.p.A.

Message:

Clearflex FF 506 is an hexene copolymer linear medium density polyethylene (C6-LMDPE), with antioxidants and processing aid, suitable for blown film extrusion.
Film manufactured with Clearflex FF 506 are characterized by high rigidity and temperature resistance, good sealing properties.
Main Applications
Clearflex FF 506 is characterized by good mechanical and sealing performances, it is recommended for applications in which the high rigidity of this resin is a key factor (hygienic film and packaging for mineral water). The high Vicat softening point makes Clearflex FF 506 ideal for the production of film for food which is submitted to pasteurisation or sterilisation process.

General Information			
Additive	Processing aid Antioxidation		
Features	Rigidity, high hexene comonomer Antioxidation Heat sealable Good heat sealability Heat resistance, high Compliance of Food Exposure		
Uses	Blown Film Films		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.934	g/cm³	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 (Dynamic, Blown Film)	> 0.50		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Film Thickness - Recommended / Available	10 to 50 µm		
Tensile Modulus			ISO 527-3
1% secant, MD: 25 µm, blown film	400	MPa	ISO 527-3
1% secant, TD: 25 µm, blown film	450	MPa	ISO 527-3

Tensile Stress			ISO 527-3
MD: Yield, 25 µm, blown film	16.0	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	18.0	MPa	ISO 527-3
MD: Broken, 25 µm, blown film	50.0	MPa	ISO 527-3
TD: Broken, 25 µm, blown film	40.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	550	%	ISO 527-3
TD: Broken, 25 µm, blown film	700	%	ISO 527-3
Dart Drop Impact (25 µm, Blown Film)	80	g	ISO 7765-1/A
Elmendorf Tear Strength [1]			ISO 6383-2
MD : 25.0 µm	40.0	kN/m	ISO 6383-2
TD : 25.0 µm	200.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	118	°C	ISO 306/A
Melting Temperature	128	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	50		ASTM D2457
Haze (25.0 µm, Blown Film)	14	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 230	°C	
NOTE			
1.	Blown Film		

Recommended distributors for this material

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