Clearflex® FG 368

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex FG 368 is an octene comonomer linear low density polyethylene (C8-LLDPE), additivated with antioxidant and processing aid, suitable for blown film extrusion.
Film manufactured with Clearflex FG 368 are characterised by high optical properties and outstanding mechanical properties.
Main Application
Clearflex FG 368 is recommended for the production of bioriented film in which a perfect combination between high mechanical properties, optical and sealing characteristics is required.

General Information			
Additive	Antioxidant Processing Aid		
Features	Antioxidant Copolymer Food Contact Acceptable Good Heat Seal Good Processability Low Density Octene Comonomer Opticals		
Uses	Bi-axially Oriented Film		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.925	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	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	230	MPa	
1% Secant, TD : 25 µm, Blown Film	250	MPa	
Tensile Stress			ISO 527-3

MD : Yield, 25 µm, Blown Film	12.0	MPa	
TD : Yield, 25 µm, Blown Film	12.0	MPa	
MD : Break, 25 µm, Blown Film	45.0	MPa	
TD : Break, 25 µm, Blown Film	45.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	550	%	
TD : Break, 25 µm, Blown Film	750	%	
Dart Drop Impact [1] (25 µm, Blown Film)	170	g	ISO 7765-1
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 25.0 µm	100.0	kN/m	
TD : 25.0 µm	250.0	kN/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	107	°C	ISO 306/A
Melting Temperature	125	°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)	8.0	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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