

Flexirene® FG 20 I

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene FG 20 I is a butene copolymer linear low density polyethylene (C4-LLDPE), with antioxidants, suitable for blown film extrusion.

Main Application

Flexirene FG 20 I is recommended for the production of general purpose film, in blend or coextrusion with LDPE.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Copolymer		
	Food Contact Acceptable		
	Low Density		
Uses	Blending		
	Film		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	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	15 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 25 µm, Blown Film	140	MPa	
1% Secant, TD : 25 µm, Blown Film	160	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 µm, Blown Film	11.0	MPa	
TD : Yield, 25 µm, Blown Film	11.0	MPa	
MD : Break, 25 µm, Blown Film	45.0	MPa	

TD : Break, 25 µm, Blown Film	35.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	550	%	
TD : Break, 25 µm, Blown Film	800	%	
Dart Drop Impact ¹ (25 µm, Blown Film)	120	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 µm	25.0	kN/m	
TD : 25.0 µm	170.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	100	°C	ISO 306/A
Melting Temperature	120	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	57		ASTM D2457
Haze (25.0 µm, Blown Film)	10	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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