

Flexirene® FG 23 U

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene FG 23 U is a butene copolymer linear low density polyethylene (C4-LLDPE) with antioxidants, suitable for blown film extrusion.

Flexirene FG 23 U represents the version with slip and antiblock agents of Flexirene FG 20 U.

Main Application

Flexirene FG 23 U is recommended for the production of general purpose film, industrial liners and shoppers; its use is suggested both in blend and in coextrusion with LDPE.

General Information			
Additive	Antiblock		
	Antioxidant		
	Slip		
Features	Antiblocking		
	Antioxidant		
	Butene Comonomer		
	Copolymer		
	Food Contact Acceptable		
	Low Density		
	Slip		
Uses	Blending		
	Film		
	Industrial Applications		
	Liners		
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)	0.11		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	150	MPa	
1% Secant, TD : 25 µm, Blown Film	175	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	42.0	MPa	
TD : Break, 25 µm, Blown Film	33.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	600	%	
TD : Break, 25 µm, Blown Film	750	%	
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	101	°C	ISO 306/A
Melting Temperature	123	°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)	15	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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