

Flexirene® FG 23 I

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene FG 23 I is a butene copolymer linear low density polyethylene (C4-LLDPE) with antioxidants, suitable for blown film extrusion. Flexirene FG 23 I represents the version with slip and antiblock agents of Flexirene FG 20 I.

Main Application

Flexirene FG 23 I 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	0.919	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)	0.14		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	121	°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)	11	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT