

Flexirene® FG 30 U

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene FG 30 U is a butene copolymer linear low density polyethylene (C4-LLDPE), with antioxidants, suitable for blown film extrusion.

Films manufactured with Flexirene FG 30 U are characterised by an optimum balance between mechanical properties (stiffness) and sealing properties.

Main Application

Flexirene FG 30 U is recommended for the production of general purpose film, automatic packaging and food packaging, especially when food is submitted to continuous cooking.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Copolymer		
	Food Contact Acceptable		
	Good Heat Seal		
	Good Stiffness		
Uses	Low Density		
	Film		
	Food Packaging		
Agency Ratings	Packaging		
	EU Food Contact, Unspecified Rating		
	Pellets		
Forms	Blown Film		
Processing Method	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	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	250	MPa	
1% Secant, TD : 25 µm, Blown Film	290	MPa	

Tensile Stress			ISO 527-3
MD : Yield, 25 µm, Blown Film	12.0	MPa	
TD : Yield, 25 µm, Blown Film	13.0	MPa	
MD : Break, 25 µm, Blown Film	45.0	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	800	%	
Dart Drop Impact ¹ (25 µm, Blown Film)	60	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 µm	20.0	kN/m	
TD : 25.0 µm	180.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	105	°C	ISO 306/A
Melting Temperature	124	°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)	13	%	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

