

Flexirene® FG 33 U

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene FG 33 U is a butene copolymer linear low density polyethylene (C4-LLDPE), with antioxidants, suitable for blown film extrusion. This grade represents the version with slip and antiblock agents of Flexirene FG 30 U.

Main Applications

Flexirene FG 33 U is recommended for the production of general purpose film, automatic packaging and food packaging. This product can be therefore used for mailing film, frozen bags and shrink application (i.e. beverage).

General Information	
Additive	Anti-caking agent Antioxidation slip agent
Features	Low density Butene comonomer Rigid, good Copolymer smoothness Anti-caking property Antioxidation Good heat sealability Compliance of Food Exposure
Uses	Packaging Films Food packaging
Agency Ratings	European food contact, not rated
Forms	Particle
Processing Method	Blow film Co-extrusion molding

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)	0.11		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	250	MPa	ISO 527-3
1% secant, TD: 25 μm, blown film	290	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 25 μm, blown film	12.0	MPa	ISO 527-3
TD: Yield, 25 μm, blown film	13.0	MPa	ISO 527-3
MD: Broken, 25 μm, blown film	45.0	MPa	ISO 527-3
TD: Broken, 25 μm, blown film	33.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 μm, blown film	600	%	ISO 527-3
TD: Broken, 25 μm, blown film	800	%	ISO 527-3
Dart Drop Impact ¹ (25 μm, Blown Film)	60	g	ISO 7765-1/A
Elmendorf Tear Strength ²			ISO 6383-2
MD : 25.0 μm	20.0	kN/m	ISO 6383-2
TD : 25.0 μm	180.0	kN/m	ISO 6383-2
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 - 230	°C	
NOTE			
1.	F50		
2.	Blown Film		

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