

Polimeri Europa Flexirene® FG 23 I Butene Copolymer Linear Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Butene, Film

Material Notes:

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 of Flexirene FG 20 I with slip and antiblock agents. Main Applications: 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. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Flexirene-FG-23-I-Butene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.919 g/cc	0.919 g/cc	ISO 1183
Thickness	15.0 - 50.0 microns	0.591 - 1.97 mil	Recommended
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ISO 527-3
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ISO 527-3
Film Elongation at Break, MD	550 %	550 %	ISO 527-3
Film Elongation at Break, TD	800 %	800 %	ISO 527-3
Coefficient of Friction, Dynamic	0.14	0.14	ISO 8295
Elmendorf Tear Strength, MD	2.5475 g/micron	64.706 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	17.323 g/micron	440.00 g/mil	ISO 6383-2
Dart Drop Test	120 g	0.265 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ISO 527-3
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	ISO 527-3
1% Secant Modulus, MD	140 MPa	20300 psi	ISO 527-3
1% Secant Modulus, TD	160 MPa	23200 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	100 °C	212 °F	ISO 306/A
	@Load 1.00 kg	@Load 2.20 lb	
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ISO 14782
Gloss	57 %	57 %	45°; ASTM D2457

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