

Polimeri Europa Flexirene® FG 30 Butene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Flexirene FG 30 is a butene copolymer linear low density polyethylene (C4-LLDPE), with antioxidants, suitable for blown film extrusion. Films manufactured with Flexirene FG 30 are characterized by an optimum balance between mechanical properties (stiffness) and sealing properties. Main Applications: Flexirene FG 30 is recommended for the production of general purpose film, automatic packaging and food packaging, especially when food is submitted to continuous cooking. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Flexirene-FG-30-Butene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.925 g/cc	0.925 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	12.0 MPa	1740 psi	ISO 527-3
Film Tensile Strength at Yield, TD	13.0 MPa	1890 psi	ISO 527-3
Film Elongation at Break, MD	600 %	600 %	ISO 527-3
Film Elongation at Break, TD	800 %	800 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	2.5475 g/micron	64.706 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	18.342 g/micron	465.89 g/mil	ISO 6383-2
Dart Drop Test	60.0 g	0.132 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	33.0 MPa	4790 psi	ISO 527-3
1% Secant Modulus, MD	250 MPa	36300 psi	ISO 527-3
1% Secant Modulus, TD	290 MPa	42100 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	105 °C	221 °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	13 %	13 %	ISO 14782
Gloss	50 %	50 %	45°; ASTM D2457

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