

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

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

Material Notes:

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 characterized by an optimum balance between mechanical properties (stiffness) and sealing properties. Main Applications: 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. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Flexirene-FG-30-U-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 | 2.038 g/micron | 51.77 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 |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| 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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