

Polimeri Europa Flexirene® CL 10 U Butene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Flexirene CL 10 U is a butene copolymer linear low density polyethylene (C4-LLDPE), with antioxidants, suitable for cast extrusion of thin film with high optical properties. Main Applications: Flexirene CL 10 U is recommended for the production of stretch film to be used in both manual and automatic wrapping machines. In a multilayer film, Flexirene CL 10 U enhances the optical properties of the global formulation; moreover, for its high processability, the resin is recommended whenever high productivity has to be reached. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Flexirene-CL-10-U-Butene-Copolymer-Linear-Low-Density-Polyethylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|-------------|
| Specific Gravity | 0.918 g/cc | 0.918 g/cc | ISO 1183 |
| Thickness | 10.0 - 50.0 microns | 0.394 - 1.97 mil | Recommended |
| Melt Flow | 2.5 g/10 min @Load 2.16 kg, Temperature 190 °C | 2.5 g/10 min @Load 4.76 lb, Temperature 374 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|-----------------|--------------|-----------------|
| Film Tensile Strength at Yield, MD | 9.00 MPa | 1310 psi | ISO 527-3 |
| Film Tensile Strength at Yield, TD | 9.00 MPa | 1310 psi | ISO 527-3 |
| Film Elongation at Break, MD | 700 % | 700 % | 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 | 4.076 g/micron | 103.5 g/mil | ISO 6383-2 |
| Elmendorf Tear Strength, TD | 11.209 g/micron | 284.71 g/mil | ISO 6383-2 |
| Dart Drop Test | 100 g | 0.221 lb | F50; ISO 7765-1 |
| Film Tensile Strength at Break, MD | 35.0 MPa | 5080 psi | ISO 527-3 |
| Film Tensile Strength at Break, TD | 25.0 MPa | 3630 psi | ISO 527-3 |
| 1% Secant Modulus, MD | 90.0 MPa | 13100 psi | ISO 527-3 |
| 1% Secant Modulus, TD | 100 MPa | 14500 psi | ISO 527-3 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|--------------------------|-------------------------|-----------------|
| Melting Point | 124 °C | 255 °F | Internal method |
| Vicat Softening Point | 96.0 °C @Load 1.00 kg | 205 °F @Load 2.20 lb | ISO 306/A |
| Brittleness Temperature | <= -70.0 °C | <= -94.0 °F | ASTM D746 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------------|
| Haze | 3.0 % | 3.0 % | ISO 14782 |
| Gloss | 90 % | 90 % | 45°; ASTM D2457 |

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