

## Polimeri Europa Riblene® FC 40 Low Density Polyethylene - Blown Film Extrusion

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

### Material Notes:

Riblene FC 40 is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion. Riblene FC 40 is characterized by a high melt strength leading to a good bubble stability during extrusion. Films manufactured with Riblene FC 40 are easily heat shrinkable and characterized by high rigidity, good mechanical and excellent optical properties. Main Applications: Riblene FC 40 is recommended for the production of shrink film for medium and high loads characterized by high rigidity, clarity and gloss. Information provided by Polimeri Europa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Riblene-FC-40-Low-Density-Polyethylene-Blown-Film-Extrusion.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FC-40-Low-Density-Polyethylene-Blown-Film-Extrusion.php)

| Physical Properties | Metric  | English   | Comments    |
|---------------------|---|---|-------------|
| Specific Gravity    | 0.928 g/cc  | 0.928 g/cc  | ISO 1183    |
| Thickness           | 40.0 - 150 microns                                    | 1.57 - 5.91 mil                                       | Recommended |
| Melt Flow           | 0.27 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.27 g/10 min<br>@Load 4.76 lb,<br>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 | 12.0 MPa        | 1740 psi     | ISO 527-3       |
| Film Elongation at Break, MD       | 550 %           | 550 %        | ISO 527-3       |
| Film Elongation at Break, TD       | 650 %           | 650 %        | ISO 527-3       |
| Coefficient of Friction, Dynamic   | >= 0.50         | >= 0.50      | ISO 8295        |
| Elmendorf Tear Strength, MD        | 3.5665 g/micron | 90.589 g/mil | ISO 6383-2      |
| Elmendorf Tear Strength, TD        | 5.095 g/micron  | 129.4 g/mil  | ISO 6383-2      |
| Dart Drop Test                     | 300 g           | 0.662 lb     | F50; ISO 7765-1 |
| Film Tensile Strength at Break, MD | 28.0 MPa        | 4060 psi     | ISO 527-3       |
| Film Tensile Strength at Break, TD | 28.0 MPa        | 4060 psi     | ISO 527-3       |
| 1% Secant Modulus, MD              | 230 MPa         | 33400 psi    | ISO 527-3       |
| 1% Secant Modulus, TD              | 240 MPa         | 34800 psi    | ISO 527-3       |

| Thermal Properties      | Metric                   | English                 | Comments        |
|-------------------------|--------------------------|-------------------------|-----------------|
| Melting Point           | 116 °C                   | 241 °F                  | Internal method |
| Vicat Softening Point   | 93.0 °C<br>@Load 1.00 kg | 199 °F<br>@Load 2.20 lb | ISO 306/A       |
| Brittleness Temperature | <= -75.0 °C              | <= -103 °F              | ASTM D746       |

| Optical Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Haze               | 6.5 %  | 6.5 %   | ISO 14782       |
| Gloss              | 70 %   | 70 %    | 45°; ASTM D2457 |

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