

## Polimeri Europa Riblene® FM 50 Low Density Polyethylene - Blown Film Extrusion

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

### Material Notes:

Riblene FM 50 is a low density polyethylene (LDPE) suitable for blown film extrusion. Riblene FM 50 is characterized by optimum optical properties and rigidity. Films manufactured with Riblene FM 50 are easily heat shrinkable. Main Applications: Riblene FM 50 is recommended for automatic packaging where low gauge films having a certain rigidity and gloss are required (hygienic packaging). Information provided by Polimeri Europa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Riblene-FM-50-Low-Density-Polyethylene-Blown-Film-Extrusion.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FM-50-Low-Density-Polyethylene-Blown-Film-Extrusion.php)

| Physical Properties | Metric                                               | English                                              | Comments    |
|---------------------|------------------------------------------------------|------------------------------------------------------|-------------|
| Specific Gravity    | 0.933 g/cc                                           | 0.933 g/cc                                           | ISO 1183    |
| Thickness           | 18.0 - 50.0 microns                                  | 0.709 - 1.97 mil                                     | Recommended |
| Melt Flow           | 3.5 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 3.5 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 | 14.0 MPa        | 2030 psi     | ISO 527-3       |
| Film Tensile Strength at Yield, TD | 15.0 MPa        | 2180 psi     | ISO 527-3       |
| Film Elongation at Break, MD       | 350 %           | 350 %        | ISO 527-3       |
| Film Elongation at Break, TD       | 600 %           | 600 %        | ISO 527-3       |
| Coefficient of Friction, Dynamic   | >= 0.50         | >= 0.50      | ISO 8295        |
| Elmendorf Tear Strength, MD        | 5.095 g/micron  | 129.4 g/mil  | ISO 6383-2      |
| Elmendorf Tear Strength, TD        | 6.6235 g/micron | 168.24 g/mil | ISO 6383-2      |
| Dart Drop Test                     | 80.0 g          | 0.176 lb     | F50; ISO 7765-1 |
| Film Tensile Strength at Break, MD | 21.0 MPa        | 3050 psi     | ISO 527-3       |
| Film Tensile Strength at Break, TD | 20.0 MPa        | 2900 psi     | ISO 527-3       |
| 1% Secant Modulus, MD              | 300 MPa         | 43500 psi    | ISO 527-3       |
| 1% Secant Modulus, TD              | 310 MPa         | 45000 psi    | ISO 527-3       |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties      | Metric        | English       | Comments  |
|-------------------------|---------------|---------------|-----------|
| Vicat Softening Point   | 107 °C        | 225 °F        | ISO 306/A |
|                         | @Load 1.00 kg | @Load 2.20 lb |           |
| Brittleness Temperature | <= -75.0 °C   | <= -103 °F    | ASTM D746 |

| Optical Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Haze               | 7.5 %  | 7.5 %   | ISO 14782       |
| Gloss              | 72 %   | 72 %    | 45°; ASTM D2457 |

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