

## Polimeri Europa Eraclene® FB 506 Hexene Copolymer High Density Polyethylene - Blown Film Extrusion

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

### Material Notes:

Eraclene FB 506 is a high density polyethylene resin (HDPE), hexene copolymer, with antioxidants, suitable for blown film extrusion. Its broad molecular weight distribution and density successfully combine excellent performance at high extrusion rates with high film strength and sealability. Main Applications: Eraclene FB 506 can be processed either in blend or in coextrusion. It is possible to use it pure for high rigidity grocery sacks and shopping bags. Usage in blend and/or in coextrusion with LDPE and LLDPE is also recommended for high strength thermo-shrinkable film, as well as for hygienic packaging. The excellent balance between drawability and bubble stability makes Eraclene FB 506 the optimum choice for manufacturing of high quality thin films characterized by outstanding mechanical properties. Information provided by Polimeri Europa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Eraclene-FB-506-Hexene-Copolymer-High-Density-Polyethylene-Blown-Film-Extrusion.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Eraclene-FB-506-Hexene-Copolymer-High-Density-Polyethylene-Blown-Film-Extrusion.php)

| Physical Properties | Metric                               | English                              | Comments    |
|---------------------|--------------------------------------|--------------------------------------|-------------|
| Specific Gravity    | 0.939 g/cc                           | 0.939 g/cc                           | ISO 1183    |
| Thickness           | 10.0 - 50.0 microns                  | 0.394 - 1.97 mil                     | Recommended |
| Melt Flow           | 0.80 g/10 min                        | 0.80 g/10 min                        | ISO 1133    |
|                     | @Load 5.00 kg,<br>Temperature 190 °C | @Load 11.0 lb,<br>Temperature 374 °F |             |
|                     | 20 g/10 min                          | 20 g/10 min                          | ISO 1133    |
|                     | @Load 21.6 kg,<br>Temperature 190 °C | @Load 47.6 lb,<br>Temperature 374 °F |             |

| Mechanical Properties              | Metric          | English      | Comments        |
|------------------------------------|-----------------|--------------|-----------------|
| Film Elongation at Break, MD       | 500 %           | 500 %        | ISO 527-3       |
| Film Elongation at Break, TD       | 750 %           | 750 %        | ISO 527-3       |
| Elmendorf Tear Strength, MD        | 1.5285 g/micron | 38.824 g/mil | ISO 6383-2      |
| Elmendorf Tear Strength, TD        | 18.342 g/micron | 465.89 g/mil | ISO 6383-2      |
| Dart Drop Test                     | 120 g           | 0.265 lb     | F50; ISO 7765-1 |
| Film Tensile Strength at Break, MD | 50.0 MPa        | 7250 psi     | ISO 527-3       |
| Film Tensile Strength at Break, TD | 50.0 MPa        | 7250 psi     | ISO 527-3       |
| 1% Secant Modulus, MD              | 400 MPa         | 58000 psi    | ISO 527-3       |
| 1% Secant Modulus, TD              | 500 MPa         | 72500 psi    | ISO 527-3       |

| Mechanical Properties   | Metric                  | English                 | Comments        |
|-------------------------|-------------------------|-------------------------|-----------------|
| Thermal Properties      | Metric                  | English                 | Comments        |
| Melting Point           | 129 °C                  | 264 °F                  | Internal method |
| Vicat Softening Point   | 119 °C<br>@Load 1.00 kg | 246 °F<br>@Load 2.20 lb | ISO 306/A       |
| Brittleness Temperature | <= -60.0 °C             | <= -76.0 °F             | ASTM D746       |

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