

## SABIC F04660 High Density Polyethylene for Blown Film Applications

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

### Material Notes:

**Product Description:** F04660 is a homopolymer HDPE film grade with excellent processability and high stiffness. It has good moisture barrier properties and can be blended with LDPE and LLDPE to improve film strength and rigidity. **Typical Applications:** F04660 is recommended for applications where high stiffness is required. It can be used in the middle layer in a coex structure or blended with LDPE and LLDPE to increase stiffness and mechanical properties. It has excellent water vapor barrier properties required for certain foods packaging. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-F04660-High-Density-Polyethylene-for-Blown-Film-Applications.php](http://www.lookpolymers.com/polymer_SABIC-F04660-High-Density-Polyethylene-for-Blown-Film-Applications.php)

| Physical Properties | Metric                               | English                              | Comments   |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Density             | 0.961 g/cc                           | 0.0347 lb/in <sup>3</sup>            | ASTM D1505 |
| Thickness           | 25.0 microns                         | 0.984 mil                            |            |
| Melt Flow           | 0.70 g/10 min                        | 0.70 g/10 min                        | ASTM D1238 |
|                     | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F |            |
|                     | 46 g/10 min                          | 46 g/10 min                          | ASTM D1238 |
|                     | @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       | 490 %          | 490 %        | ASTM D882  |
| Film Elongation at Break, TD       | 3.0 %          | 3.0 %        | ASTM D882  |
| Elmendorf Tear Strength MD         | 10 g           | 10 g         | ASTM D1922 |
| Elmendorf Tear Strength TD         | 800 g          | 800 g        | ASTM D1922 |
| Elmendorf Tear Strength, MD        | 0.400 g/micron | 10.2 g/mil   | ASTM D1922 |
| Elmendorf Tear Strength, TD        | 32.0 g/micron  | 813 g/mil    | ASTM D1922 |
| Dart Drop Test                     | <= 20.0 g      | <= 0.0441 lb | ASTM D1709 |
| Film Tensile Strength at Break, MD | 67.0 MPa       | 9720 psi     | ASTM D882  |
| Film Tensile Strength at Break, TD | 37.0 MPa       | 5370 psi     | ASTM D882  |
| 1% Secant Modulus, MD              | 1250 MPa       | 181000 psi   | ASTM D882  |
| 1% Secant Modulus, TD              | 1700 MPa       | 247000 psi   | ASTM D882  |

| Thermal Properties    | Metric | English | Comments   |
|-----------------------|--------|---------|------------|
| Vicat Softening Point | 129 °C | 264 °F  | ASTM D1525 |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 200 - 235 °C | 392 - 455 °F |          |
| Blow-up Ratio (BUR)   | 2.5          | 2.5          |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China