

## ExxonMobil Pax-Plus™ 3208 Blown Film Resin

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

**Material Notes:**

Pax-Plus 3208 is a rubber modified high density polyethylene film resin offering good physical properties with ease of processing. It exhibits toughness, stress crack resistance and low WVTR. Information provided by ExxonMobil Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Pax-Plus-3208-Blown-Film-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-Pax-Plus-3208-Blown-Film-Resin.php)

| Physical Properties | Metric  | English   | Comments          |
|---------------------|---|---|-------------------|
| Density             | 0.936 g/cc  | 0.0338 lb/in <sup>3</sup>                             | ExxonMobil Method |
| Thickness           | 50.8 microns  | 2.00 mil  |                   |
| Melt Flow           | 0.10 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.10 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ExxonMobil Method |
|                     | 2.6 g/10 min<br>@Load 10.0 kg,<br>Temperature 190 °C  | 2.6 g/10 min<br>@Load 22.0 lb,<br>Temperature 374 °F  | ExxonMobil Method |

| Mechanical Properties              | Metric        | English     | Comments                |
|------------------------------------|---------------|-------------|-------------------------|
| Film Tensile Strength at Yield, MD | 11.9 MPa      | 1720 psi    | at 2% offset; ASTM D882 |
| Film Tensile Strength at Yield, TD | 13.1 MPa      | 1900 psi    | at 2% offset; ASTM D882 |
| Film Elongation at Break, MD       | 630 %         | 630 %       | ASTM D882               |
| Film Elongation at Break, TD       | 750 %         | 750 %       | ASTM D882               |
| Puncture Energy                    | 2.135 J       | 1.575 ft-lb | Exxon Mobil Method      |
| Elmendorf Tear Strength MD         | 70 g          | 70 g        | ASTM D1922              |
| Elmendorf Tear Strength TD         | 570 g         | 570 g       | ASTM D1922              |
| Elmendorf Tear Strength, MD        | 1.38 g/micron | 35.0 g/mil  | ASTM D1922              |
| Elmendorf Tear Strength, TD        | 11.2 g/micron | 285 g/mil   | ASTM D1922              |
| Dart Drop                          | 4.92 g/micron | 125 g/mil   | ASTM D1709              |
| Dart Drop Test                     | 250 g         | 0.551 lb    | ASTM D1709              |
| Film Tensile Strength at Break, MD | 25.7 MPa      | 3730 psi    | ASTM D882               |
| Film Tensile Strength at Break, TD | 23.6 MPa      | 3420 psi    | ASTM D882               |

| 1% Secant Modulus, MD<br>Mechanical Properties | 325 MPa<br>Metric | 47100 psi<br>English | ASTM D882<br>Comments |
|--|-------------------|----------------------|-----------------------|
| 1% Secant Modulus, TD                          | 406 MPa           | 58900 psi            | ASTM D882             |

| Thermal Properties    | Metric | English | Comments                                       |
|-----------------------|--------|---------|--|
| Melting Point         | 128 °C | 263 °F  | Peak Melting Temperature;<br>ExxonMobil Method |
| Vicat Softening Point | 112 °C | 234 °F  | ExxonMobil Method                              |

| Descriptive Properties | Value              | Comments |
|------------------------|--------------------|----------|
| Features               | Thermal Stabilizer |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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