

## ExxonMobil EXACT™ 3027 Plastomer for Cast Film Applications

Category : Polymer , Film , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO), Film Grade , Polyethylene (PE)

### Material Notes:

**Product Description:** Exact 3027 is an ethylene-based butene plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. Exact 3027 is designed for both monolayer and multilayer coextruded cast film applications requiring excellent toughness and heat sealing performance. Typical applications include seal layers for meat, poultry, and cheese packaging, lamination films, heavy duty bags, and cereal box liner packaging. **Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: NoThermal Stabilizer: Yes **Applications:** Cast Film Heavy Duty Bags Lamination Film Data provided by the manufacturer, Exxon Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-EXACT-3027-Plastomer-for-Cast-Film-Applications.php](http://www.lookpolymers.com/polymer_ExxonMobil-EXACT-3027-Plastomer-for-Cast-Film-Applications.php)

| Physical Properties | Metric       | English                   | Comments     |
|---------------------|--------------|---------------------------|--------------|
| Density             | 0.900 g/cc   | 0.0325 lb/in <sup>3</sup> | Exxon Method |
| Thickness           | 20.3 microns | 0.800 mil                 |              |
| Melt Flow           | 3.5 g/10 min | 3.5 g/10 min              | Exxon Method |

| Mechanical Properties              | Metric        | English    | Comments             |
|------------------------------------|---------------|------------|----------------------|
| Film Tensile Strength at Yield, MD | 6.27 MPa      | 909 psi    | ASTM D882            |
| Film Tensile Strength at Yield, TD | 4.30 MPa      | 624 psi    | ASTM D882            |
| Film Elongation at Break, MD       | 490 %         | 490 %      | ASTM D882            |
| Film Elongation at Break, TD       | 810 %         | 810 %      | ASTM D882            |
| Film Elongation at Yield, MD       | 10 %          | 10 %       | ASTM D882            |
| Film Elongation at Yield, TD       | 8.0 %         | 8.0 %      | ASTM D882            |
| Secant Modulus, MD                 | 0.0669 GPa    | 9.70 ksi   | 1% secant; ASTM D882 |
| Secant Modulus, TD                 | 0.0758 GPa    | 11.0 ksi   | 1% secant; ASTM D882 |
| Puncture Energy                    | 6.44 J        | 4.75 ft-lb | Exxon Method         |
| Elmendorf Tear Strength, MD        | 7.09 g/micron | 180 g/mil  | ASTM D1922           |
| Elmendorf Tear Strength, TD        | 9.84 g/micron | 250 g/mil  | ASTM D1922           |
| Dart Drop                          | 9.06 g/micron | 230 g/mil  | ASTM D1709           |
| Film Tensile Strength at Break, MD | 58.0 MPa      | 8410 psi   | ASTM D882            |
| Film Tensile Strength at Break, TD | 35.0 MPa      | 5080 psi   | ASTM D882            |

| Thermal Properties | Metric  | English | Comments     |
|--------------------|---------|---------|--------------|
| Melting Point      | 90.0 °C | 194 °F  | Exxon Method |

| Optical Properties | Metric | English | Comments         |
|--------------------|--------|---------|------------------|
| Haze               | 0.40 % | 0.40 %  | ASTM D1003       |
| Gloss              | 94 %   | 94 %    | 45°; ASTM D-2457 |

| Descriptive Properties | Value  | Comments     |
|------------------------|--------|--------------|
| Puncture Force         | 14 lbf | Exxon Method |

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