

## ExxonMobil LD 144.50 Packaging Film Resin

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

### Material Notes:

Film made from LD 144.50 offers improved impact strength and heat sealability compared to homopolymer clarity film resins. Typically applications include food packaging, frozen food packaging, and textile goods packaging rack and counter bags. Information provided by ExxonMobil Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LD-14450-Packaging-Film-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-LD-14450-Packaging-Film-Resin.php)

| Physical Properties   | Metric       | English                   | Comments          |
|-----------------------|--------------|---------------------------|-------------------|
| Density               | 0.921 g/cc   | 0.0333 lb/in <sup>3</sup> | ExxonMobil Method |
| Vinyl Acetate Content | 2.0 %        | 2.0 %                     | ExxonMobil Method |
| Melt Flow             | 2.0 g/10 min | 2.0 g/10 min              | ExxonMobil Method |
| Antiblock Level       | 3500 ppm     | 3500 ppm                  |                   |
| Slip Level            | 725 ppm      | 725 ppm                   |                   |

| Mechanical Properties              | Metric   | English   | Comments                |
|------------------------------------|----------|-----------|-------------------------|
| Film Tensile Strength at Yield, MD | 9.10 MPa | 1320 psi  | at 2% offset; ASTM D882 |
| Film Tensile Strength at Yield, TD | 9.17 MPa | 1330 psi  | at 2% offset; ASTM D882 |
| Film Elongation at Break, MD       | 160 %    | 160 %     | ASTM D882               |
| Film Elongation at Break, TD       | 550 %    | 550 %     | ASTM D882               |
| Film Elongation at Yield, MD       | 6.4 %    | 6.4 %     | ASTM D882               |
| Film Elongation at Yield, TD       | 5.5 %    | 5.5 %     | ASTM D882               |
| Elmendorf Tear Strength MD         | 310 g    | 310 g     | ASTM D1922              |
| Elmendorf Tear Strength TD         | 100 g    | 100 g     | ASTM D1922              |
| Dart Drop Test                     | 140 g    | 0.309 lb  | ASTM D1709              |
| Film Tensile Strength at Break, MD | 23.7 MPa | 3440 psi  | ASTM D882               |
| Film Tensile Strength at Break, TD | 20.7 MPa | 3000 psi  | ASTM D882               |
| 1% Secant Modulus, MD              | 172 MPa  | 24900 psi | ASTM D882               |
| 1% Secant Modulus, TD              | 208 MPa  | 30100 psi | ASTM D882               |

| Thermal Properties          | Metric  | English | Comments                                       |
|-----------------------------|---------|---------|------------------------------------------------|
| Melting Point               | 107 °C  | 224 °F  | Peak Melting Temperature;<br>ExxonMobil Method |
| Crystallization Temperature | 94.0 °C | 201 °F  | ExxonMobil Method                              |
| Vicat Softening Point       | 90.0 °C | 194 °F  | ASTM D1525                                     |

| Optical Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Haze               | 8.1 %  | 8.1 %   | ASTM D1003      |
| Gloss              | 63 %   | 63 %    | 45°; ASTM D2457 |

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

## Contact Songhan Plastic Technology Co.,Ltd.

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