

## ExxonMobil Oppalyte™ 50M0747 OPP Film

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

### Material Notes:

**Product Description:** A white opaque biaxially oriented polypropylene film, coated on one side acrylic, one side PVdC. Provides excellent performance on all packaging machines. **Availability:** Africa & Middle East, Asia Pacific and Europe **Key Features:** Broad sealing range on acrylic side Excellent aroma, oxygen, and moisture barriers Superior opacity High yield Excellent stiffness Coatings are mutually compatible and compatible with converter-applied PVdC coatings Excellent base for converty-applied coatings Solvent-free coatings Ideal support for water-based ink printing on acrylic side **Features:** Acrylic Coating Flavor & Aroma Barrier Gas Barrier In Lamination Lap Sealable Light Barrier Moisture Barrier Oxygen Barrier PVdC Coated Sealable PVdC Coated **Applications:** Bakery Biscuits/Cookie/Crackers Box Overwrap Confectionery, Chocolate Confectionery, Gum Confectionery, Sugar Crisps and Snacks Dry Foods and Beverage Powders Fresh Produce Frozen Food Health and Beauty Care Household and Detergents Ice Cream **Uses:** Box Overwrap Flexible Packaging HFFS Flexible Packaging Pre-made Bags – Flexible Packaging VFFS Flexible Packaging **Processing Method:** Cold Seal Adhesive, Inner Web Adhesive Lamination, Outer Web Adhesive Lamination, Solvent Flexographic Printing, Solvent Rotogravure Printing and Surface Print **Unsupported Information** provided by ExxonMobil

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Oppalyte-50M0747-OPP-Film.php](http://www.lookpolymers.com/polymer_ExxonMobil-Oppalyte-50M0747-OPP-Film.php)

| Physical Properties      | Metric                      | English                           | Comments                       |
|--------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Water Vapor Transmission | 0.605 g/m <sup>2</sup> /day | 0.0390 g/100 in <sup>2</sup> /day | 85% RH; ExxonMobil Method      |
|                          | @Temperature 23.0 °C        | @Temperature 73.4 °F              |                                |
|                          | 3.41 g/m <sup>2</sup> /day  | 0.220 g/100 in <sup>2</sup> /day  | 90% RH; ExxonMobil Method      |
|                          | @Temperature 38.0 °C        | @Temperature 100 °F               |                                |
| Oxygen Transmission Rate | 20.0 cc/m <sup>2</sup> /day | 1.29 cc/100 in <sup>2</sup> /day  | Wet, 75% RH; ExxonMobil Method |
|                          | @Temperature 23.0 °C        | @Temperature 73.4 °F              |                                |
|                          | 20.2 cc/m <sup>2</sup> /day | 1.30 cc/100 in <sup>2</sup> /day  | 0% RH; ExxonMobil Method       |
|                          | @Temperature 23.0 °C        | @Temperature 73.4 °F              |                                |
| Thickness                | 50.8 microns                | 2.00 mil                          | ExxonMobil Method              |
| Coating Weight           | 32.8 g/m <sup>2</sup>       | 20.5 lb/ream                      | ExxonMobil Method              |

| Mechanical Properties        | Metric   | English | Comments   |
|------------------------------|----------|---------|--|
| Film Elongation at Break, MD | 130 %    | 130 %   | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |
| Film Elongation at Break, TD | 50 %     | 50 %    | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |
| Modulus of Elasticity        | 2.50 GPa | 363 ksi | TD; ExxonMobil Method                                |
| Coefficient of Friction      |          |         | ExxonMobil Method                                    |

| Mechanical Properties              | <sup>0.25</sup><br>Metric                                 | <sup>0.25</sup><br>English                            | Comments  |
|------------------------------------|---|---|---|
|                                    | 0.35  | 0.35  | ExxonMobil Method                                       |
| Seal Strength                      | 410 g/25 mm<br>@Pressure 0.276 MPa,<br>Temperature 140 °C | 410 g/in<br>@Pressure 40.0 psi,<br>Temperature 284 °F | Otto Brugger, 0.2 sec, PVdC;<br>ExxonMobil Method       |
|                                    | 410 g/25 mm<br>@Pressure 0.276 MPa,<br>Temperature 140 °C | 410 g/in<br>@Pressure 40.0 psi,<br>Temperature 284 °F | Otto Brugger, 0.2 sec, Acrylic;<br>ExxonMobil Method    |
| Film Tensile Strength at Break, MD | 115 MPa   | 16700 psi   | 7.9 in/min, 4.9 in Jaw Separation;<br>ExxonMobil Method |
| Film Tensile Strength at Break, TD | 170 MPa   | 24700 psi   | 7.9 in/min, 4.9 in Jaw Separation;<br>ExxonMobil Method |

| Thermal Properties | Metric  | English  | Comments          |
|--------------------|---|--|-------------------|
| Shrinkage, MD      | 5.0 %<br>@Temperature 135 °C,<br>Time 432 sec | 5.0 %<br>@Temperature 275 °F,<br>Time 0.120 hour | ExxonMobil Method |
| Shrinkage, TD      | 5.0 %<br>@Temperature 135 °C,<br>Time 432 sec | 5.0 %<br>@Temperature 275 °F,<br>Time 0.120 hour | ExxonMobil Method |

| Optical Properties    | Metric | English | Comments          |
|-----------------------|--------|---------|-------------------|
| Gloss                 | 100 %  | 100 %   | ExxonMobil Method |
| Transmission, Visible | 16.5 % | 16.5 %  | ExxonMobil Method |

| Descriptive Properties           | Value                                | Comments                   |
|----------------------------------|--------------------------------------|----------------------------|
| Carbon Dioxide Transmission Rate | 5.16 cc/100 in <sup>2</sup> / 24 hr  | 75% RH, ASTM D1434         |
| Heat Seal Range                  | 54°F                                 | PVdC, 36.3 psi, 0.2 sec    |
|                                  | 90°F                                 | Acrylic, 36.3 psi, 0.2 sec |
| Nitrogen Transmission Rate       | 0.645 cc/100 in <sup>2</sup> / 24 hr | 75% RH, ASTM D1434         |
| Yield                            | 21000 in <sup>2</sup> /lb            |                            |

## Contact Songhan Plastic Technology Co.,Ltd.

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