

ExxonMobil Oppalyte™ 40MW648 OPP Film

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

Material Notes:

Product Description: A high speed super white opaque, biaxially oriented polypropylene film coated one side acrylic, one side very low temperature seal (VLTS) coating. VLTS coating provides an excellent performance on high speed HFFS machines. Acrylic provides a good aroma barrier and an excellent surface for printability. **Availability:** Africa & Middle East, Asia Pacific and Europe **Key Features:** Exceptional wide sealing range with a low minimum seal temperature (MST) Excellent seal strength and hot-tack Robust performance on horizontal flowpack machines Excellent humidity seal retention on VLTS Side Good aroma barrier Outstanding opacity, white background and reduced show-through High yield Ideal support for normal ink systems Water-based coatings **Features:** Acrylic Coated Flavor & Aroma Barrier Humidity Resistant Light Barrier Very Broad Seal Range VLTS Coated **Applications:** Bakery Biscuits/ Cookie/ Crackers 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 Pet Food **Uses:** HFFS Flexible Packaging **Processing Method:** Inner 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-40MW648-OPP-Film.php

| Physical Properties | Metric | English | Comments |
|--------------------------|----------------------------|-----------------------------------|--------------------------------|
| Water Vapor Transmission | 1.10 g/m ² /day | 0.0710 g/100 in ² /day | 85% RH; ExxonMobil Method |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 5.28 g/m ² /day | 0.340 g/100 in ² /day | 90% RH; ExxonMobil Method |
| | @Temperature 38.0 °C | @Temperature 100 °F | |
| Oxygen Transmission Rate | 801 cc/m ² /day | 51.6 cc/100 in ² /day | Wet, 75% RH; ExxonMobil Method |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 807 cc/m ² /day | 52.0 cc/100 in ² /day | 0% RH; ExxonMobil Method |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Thickness | 40.6 microns | 1.60 mil | ExxonMobil Method |
| Coating Weight | 25.1 g/m ² | 15.7 lb/ream | ExxonMobil Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|----------|---------|--|
| Film Elongation at Break, MD | 140 % | 140 % | 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 | 1.30 GPa | 189 ksi | MD; ExxonMobil Method |
| | | | TD; ExxonMobil Method |

| Mechanical Properties | 2.10 GPa Metric | 305 ksi English | Comments |
|------------------------------------|--|---|---|
| Coefficient of Friction | 0.25 | 0.25 | Acrylic; ExxonMobil Method |
| | 0.55 | 0.55 | VLTS; ExxonMobil Method |
| Seal Strength | 410 g/25 mm @Pressure 0.138 MPa, Temperature 80.0 °C | 410 g/in @Pressure 20.0 psi, Temperature 176 °F | LTS, 0.8 sec; ExxonMobil Method |
| Film Tensile Strength at Break, MD | 100 MPa | 14500 psi | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |
| Film Tensile Strength at Break, TD | 155 MPa | 22500 psi | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |

| Thermal Properties | Metric | English | Comments |
|--------------------|---|--|-------------------|
| Shrinkage, MD | 5.0 % @Temperature 135 °C, Time 432 sec | 5.0 % @Temperature 275 °F, Time 0.120 hour | ExxonMobil Method |
| Shrinkage, TD | 4.0 % @Temperature 135 °C, Time 432 sec | 4.0 % @Temperature 275 °F, Time 0.120 hour | ExxonMobil Method |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|------------------------|
| Gloss | 75 % | 75 % | 45°; ExxonMobil Method |
| Transmission, Visible | 22 % | 22 % | ExxonMobil Method |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------|-------------------------|
| Heat Seal Range | 126°F | VLTS, 36.3 psi, 0.2 sec |
| Whiteness Index | 82 | |
| Yield | 27600 in ² /lb | |

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