

ExxonMobil Oppalyte™ 36M0747 OPP Film

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

Material Notes:

Product Description: A white opaque biaxially oriented polypropylene film acrylic coated on one side, one side PVdC. Provides outstanding performances on all packaging machines. **Availability:** Africa & Middle East, Asia Pacific and Europe **Key Features:** Broad sealing range on both sides Excellent aroma, oxygen and moisture barriers Superior opacity High yield Excellent stiffness Coatings are mutually compatible and compatible with converter-applies PVdC coating Excellent base for converty-applied coating Solvent-free coatings Ideal support for water based ink printing **Features:** Acrylic Coated 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-36M0747-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 | |
| | 4.81 g/m ² /day | 0.310 g/100 in ² /day | 90% RH; ExxonMobil Method |
| | @Temperature 38.0 °C | @Temperature 100 °F | |
| Oxygen Transmission Rate | 20.0 cc/m ² /day | 1.29 cc/100 in ² /day | Wet, 75% RH; ExxonMobil Method |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 20.2 cc/m ² /day | 1.30 cc/100 in ² /day | 0% RH; ExxonMobil Method |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Thickness | 35.6 microns | 1.40 mil | ExxonMobil Method |
| Coating Weight | 24.3 g/m ² | 15.2 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 | 1.50 GPa | 218 ksi | MD; ExxonMobil Method |
| | | | TD; ExxonMobil Method |

| Mechanical Properties | 2.50 GPa Metric | 363 ksi English | Comments |
|------------------------------------|---|---|---|
| Coefficient of Friction | 0.25 | 0.25 | Acrylic; ExxonMobil Method |
| | 0.35 | 0.35 | PVdC; ExxonMobil Method |
| Seal Strength | 360 g/25 mm @Pressure 0.276 MPa, Temperature 130 °C | 360 g/in @Pressure 40.0 psi, Temperature 266 °F | Otto Brugger, 0.2 sec, PVdC; ExxonMobil Method |
| | 360 g/25 mm @Pressure 0.276 MPa, Temperature 130 °C | 360 g/in @Pressure 40.0 psi, Temperature 266 °F | Otto Brugger, 0.2 sec, Acrylic; ExxonMobil Method |
| Film Tensile Strength at Break, MD | 115 MPa | 16700 psi | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |
| Film Tensile Strength at Break, TD | 170 MPa | 24700 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 | 6.0 % @Temperature 135 °C, Time 432 sec | 6.0 % @Temperature 275 °F, Time 0.120 hour | ExxonMobil Method |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---|
| Gloss | 100 % | 100 % | 45°, PVdC Surface; ExxonMobil Method |
| Transmission, Visible | 22 % | 22 % | ExxonMobil Method |

| Descriptive Properties | Value | Comments |
|----------------------------------|--------------------------------------|----------------------------|
| Carbon Dioxide Transmission Rate | 5.16 cc/100 in ² / 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 ² / 24 hr | 75% RH, ASTM D1434 |
| Yield | 28400 in ² /lb | |

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