

ExxonMobil Bicolor™ 40MB668 OPP Film

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

Material Notes:

Product Description: A high speed transparent biaxially oriented polypropylene film, coated one side acrylic, one side very low temperature seal (VLTS) coating. VLTS coating provides excellent performance on high speed HFFS machines. Acrylic coating provides aroma barrier and an excellent support for printing.

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 Excellent humidity seal retention on VLTS side Good aroma barrier Excellent stiffness Outstanding optical properties Ideal support for normal ink systems Water-based coatings

Features: Acrylic Coated Flavor & Aroma Barrier Very Broad Seal Range VLTS Coated

Applications: Bakery Biscuits/Cookie/Crackers Confectionery, Chocolate Confectionery, Gum Confectionery, Sugar Frozen Food Health and Beauty Care Household and Detergents Ice Cream Uses: HFFS Flexible Packaging

Processing Method: Solvent Flexographic Printing, Solvent Rotogravure Printing and Surface Print

Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Bicolor-40MB668-OPP-Film.php

| Physical Properties | Metric | English | Comments |
|--------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Water Vapor Transmission | 0.605 g/m ² /day | 0.0390 g/100 in ² /day | 85% RH; ExxonMobil Method |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 3.57 g/m ² /day | 0.230 g/100 in ² /day | 90% RH; ExxonMobil Method |
| | @Temperature 38.0 °C | @Temperature 100 °F | |
| Oxygen Transmission Rate | 601 cc/m ² /day | 38.7 cc/100 in ² /day | Wet, 75% RH; ExxonMobil Method |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 605 cc/m ² /day | 39.0 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 | 36.3 g/m ² | 22.7 lb/ream | ExxonMobil Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|----------|---------|--|
| Film Elongation at Break, MD | 175 % | 175 % | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |
| Film Elongation at Break, TD | 65 % | 65 % | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |
| Modulus of Elasticity | 2.00 GPa | 290 ksi | MD; ExxonMobil Method |
| | 3.50 GPa | 508 ksi | TD; ExxonMobil Method |

| Coefficient of Friction Mechanical Properties | 0.25 Metric | 0.25 English | Acrylic; ExxonMobil Method Comments |
|--|--|---|---|
| | 0.40 | 0.40 | 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 | 120 MPa | 17400 psi | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |
| Film Tensile Strength at Break, TD | 245 MPa | 35500 psi | 7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method |

| Thermal Properties | Metric | English | Comments |
|--------------------|---|--|-------------------|
| Shrinkage, MD | 4.0 % @Temperature 135 °C, Time 432 sec | 4.0 % @Temperature 275 °F, Time 0.120 hour | ExxonMobil Method |
| Shrinkage, TD | 2.0 % @Temperature 135 °C, Time 432 sec | 2.0 % @Temperature 275 °F, Time 0.120 hour | ExxonMobil Method |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|------------------------|
| Haze | 1.2 % | 1.2 % | ExxonMobil Method |
| Gloss | 87 % | 87 % | 45°; ExxonMobil Method |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------|-------------------------|
| Heat Seal Range | 126°F | VLTS, 36.3 psi, 0.2 sec |
| Yield | 19000 in ² /lb | |

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