

## ExxonMobil Bicolor™ 21MB621 OPP Film

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

### Material Notes:

**Product Description:** Biaxially oriented transparent polypropylene film with heat sealable coating applied to both sides. The static resistant feature of this film prevents the attraction of dust, and contributes to excellent machine performance even on critical packaging machines. The acrylic coating is water based and provides wide heat sealing range on packaging equipment. **Availability:** Africa & Middle East, Asia Pacific and Europe **Key Features:** Low sealing threshold Efficient Sealability under Low Pressure Optimum and Stable Coefficient of Friction Excellent Performance on Overwrap Packaging Machines Outstanding Optical Properties Good Aroma Barrier Ideal Support for Normal Ink Systems Water Based Coatings **Features:** Acrylic Coated Flavor & Aroma Barrier **Applications:** Box Overwrap Confectionery, Chocolate Confectionery, Gum Confectionery, Sugar Health and Beauty Care **Uses:** Box Overwrap Flexible Packaging **Processing Method:** 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-Bicolor-21MB621-OPP-Film.php](http://www.lookpolymers.com/polymer_ExxonMobil-Bicolor-21MB621-OPP-Film.php)

Physical Properties	Metric	English	Comments
Water Vapor Transmission	1.40 g/m <sup>2</sup> /day	0.0900 g/100 in <sup>2</sup> /day	85% RH; ExxonMobil Method
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.98 g/m <sup>2</sup> /day	0.450 g/100 in <sup>2</sup> /day	90% RH; ExxonMobil Method
	@Temperature 38.0 °C	@Temperature 100 °F	
Thickness	21.1 microns	0.830 mil	ExxonMobil Method
Coating Weight	18.7 g/m <sup>2</sup>	11.7 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	2.20 GPa	319 ksi	MD; ExxonMobil Method
	4.00 GPa	580 ksi	
Coefficient of Friction	0.25	0.25	Both Sides; ExxonMobil Method
Seal Strength	200 g/25 mm	200 g/in	0.5 sec, LPS; ExxonMobil Method
	@Pressure 0.00345 MPa, Temperature 100 °C	@Pressure 0.500 psi, Temperature 212 °F	
	510 g/25 mm	510 g/in	

Mechanical Properties	Metric	English	Comments
	@Pressure 0.276 MPa, Temperature 140 °C	@Pressure 40.0 psi, Temperature 284 °F	Otto Bruger, 0.2 sec; ExxonMobil Method
Film Tensile Strength at Break, MD	130 MPa	18900 psi	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method
Film Tensile Strength at Break, TD	250 MPa	36300 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	3.0 %  @Temperature 135 °C, Time 432 sec	3.0 %  @Temperature 275 °F, Time 0.120 hour	ExxonMobil Method

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ExxonMobil Method
Gloss	85 %	85 %	45°; ExxonMobil Method

Descriptive Properties	Value	Comments
Heat Seal Range	72°F	36.3 psi, 0.2 sec
Yield	36800 in <sup>2</sup> /lb	

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