

## ExxonMobil Bicolor™ 20MB080 OPP Film

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

### Material Notes:

**Product Description:** Bicolor 20NB080 is a biaxially oriented polypropylene film metallizable on one side, with a heat sealable surface on the other side. Designed to be used after metallization as a single web in HFFS applications or in laminations for other purposes. **Availability:** Africa & Middle East, Asia Pacific and Europe **Key Features:** Good adhesion layer for metallization Excellent processability in metallization Good machinability on HFFS machine Very good hot tack One side sealable High yield Brilliant metal appearance after metallization **Features:** In Lamination Lap Sealable **Applications:** Industrial **Information provided by ExxonMobil**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Bicolor-20MB080-OPP-Film.php](http://www.lookpolymers.com/polymer_ExxonMobil-Bicolor-20MB080-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	20.1 microns	0.790 mil	ExxonMobil Method
Coating Weight	17.9 g/m <sup>2</sup>	11.2 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	60 %	60 %	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method
Modulus of Elasticity	2.00 GPa	290 ksi	MD; ExxonMobil Method
	3.60 GPa	522 ksi	TD; ExxonMobil Method
Coefficient of Friction	0.65	0.65	Treated Surface; ExxonMobil Method
	0.85	0.85	Untreated Surface; ExxonMobil Method
Seal Strength	460 g/25 mm @Pressure 0.276 MPa, Temperature 140 °C	460 g/in @Pressure 40.0 psi, Temperature 284 °F	Otto Bruger, 0.2 sec; ExxonMobil Method
Film Tensile Strength at Break, MD	150 MPa	21800 psi	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method
Film Tensile Strength at Break, TD	290 MPa	42100 psi	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method

Thermal Properties	Metric	English	Comments
Shrinkage, MD	6.5 %	6.5 %	ExxonMobil Method
	@Temperature 135 °C, Time 432 sec	@Temperature 275 °F, Time 0.120 hour	
Shrinkage, TD	4.5 %	4.5 %	ExxonMobil Method
	@Temperature 135 °C, Time 432 sec	@Temperature 275 °F, Time 0.120 hour	

Optical Properties	Metric	English	Comments
Haze	1.9 %	1.9 %	ExxonMobil Method
Gloss	85 %	85 %	45°; ExxonMobil Method

Descriptive Properties	Value	Comments
Heat Seal Range	54°F	36.3 psi, 0.2 sec
Yield	38600 in <sup>2</sup> /lb	

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