

ExxonMobil Metallyte™ 18MM488 OPP Film

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

Material Notes:

Product Description: A metalized biaxially oriented polypropylene film, metalized on one side. MM488 is typically used in laminates as the inner web for VFFS and HFFS applications. Due to its slip controlled broad seal range surface, film offers excellent performance on all types of VFFS packaging machines. When laminated with standard coex, it can be lap sealed. **Availability:** Africa & Middle East, Asia Pacific and Europe **Key Features:** Excellent adhesion of aluminum to film Very good moisture barrier and light barrier Slip controlled sealing layer Good oxygen barrier Very good hot tack Broad seal range for good performance on VFFS and HFFS machines Easy to convert Brilliant metal appearance **Features:** Flavor & Aroma Barrier Gas Barrier In Lamination Lap Sealable Light Barrier Moisture Barrier Oxygen Barrier **Applications:** Bakery Biscuits/Cookie/Crackers Box Overwrap Confectionery, Chocolate Confectionery, Gum Confectionery, Sugar Crisps and Snacks Dry Foods and Beverage Powders Frozen Food Ice Cream Pet Food **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, 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-Metallyte-18MM488-OPP-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Transmission	0.295 g/m ² /day	0.0190 g/100 in ² /day	90% RH; ExxonMobil Method
	@Temperature 38.0 °C	@Temperature 100 °F	
Oxygen Transmission Rate	49.7 cc/m ² /day	3.20 cc/100 in ² /day	0% RH; ExxonMobil Method
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Thickness	18.0 microns	0.710 mil	ExxonMobil Method
Coating Weight	16.2 g/m ²	10.1 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	0.40	0.40	Unmetallized Size; ExxonMobil Method
Seal Strength	460 g/25 mm	460 g/in	Otto Brugger, 0.2 sec; ExxonMobil Method
	@Pressure 0.276 MPa, Temperature 140 °C	@Pressure 40.0 psi, Temperature 284 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	158 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 % @Temperature 135 °C, Time 432 sec	6.5 % @Temperature 275 °F, Time 0.120 hour	ExxonMobil Method
Shrinkage, TD	4.5 % @Temperature 135 °C, Time 432 sec	4.5 % @Temperature 275 °F, Time 0.120 hour	ExxonMobil Method

Optical Properties	Metric	English	Comments
Optical Density	2.3	2.3	ExxonMobil Method

Descriptive Properties	Value	Comments
Heat Seal Range	72°F	36.3 psi, 0.2 sec
Yield	43000 in ² /lb	

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