ExxonMobil Bicor™ 32MB768 OPP Film

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

Material Notes:

Product Description: A High gas barrier, biaxially oriented transparent polypropylene film, coated on one side PVdC, one side very low temperature seal (VTLS) coating. PVdC provides excellent moisture, gas and aroma protection for all types of products and VLTS coating excellent performance on high speed HFFS machines.Availability: Africa & Middle East, Asia Pacific and EuropeKey Features:Excellent moisture, oxygen and aroma barriersExceptionally wide sealing range with a low minimum seal temperature (MST)Excellent seal strength and hot tackRobust performance on horizontal flowpack machinesExcellent seal retention in humid conditionsOutstanding optical propertiesWater-based coatingsFeatures:Flavor & Aroma BarrierGas BarrierHigh Barrier Printable PVdC CoatedHumidity ResistantIn Lamination Lap SealableMoisture BarrierOxygen BarrierVery Broad Seal RangeVLTS CoatedApplications:BakeryBiscuits/Cookie/CrackersBox OverwrapConfectionery, Chocolate Confectionery, Gum Confectionery, SugarHealth and Beauty Care Uses: HFFS Flexible PackagingProcessing Method: Solvent Flexographic Printing, Solvent Rotogravure Printing and Surface Print UnsupportedInformation provided by ExxonMobil

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http://www.lookpolymers.com/polymer_ExxonMobil-Bicor-32MB768-OPP-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Transmission	0.807 g/m²/day @Temperature 23.0 °C	0.0520 g/100 in²/day @Temperature 73.4 °F	85% RH; ExxonMobil Method
	2.95 g/m²/day @Temperature 38.0 °C	0.190 g/100 in²/day @Temperature 100 °F	90% RH; ExxonMobil Method
Oxygen Transmission Rate	20.0 cc/m²/day @Temperature 23.0 °C	1.29 cc/100 in²/day @Temperature 73.4 °F	Wet, 75% RH; ExxonMobil Method
	20.2 cc/m²/day @Temperature 23.0 °C	1.30 cc/100 in²/day @Temperature 73.4 °F	0% RH; ExxonMobil Method
Thickness	33.0 microns	1.30 mil	ExxonMobil Method
Coating Weight	29.0 g/m²	18.1 lb/ream	ExxonMobil Method

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	200 %	200 %	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	2.20 GPa	319 ksi	MD; ExxonMobil Method
	3.50 GPa	508 ksi	TD; ExxonMobil Method

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.28	0.28	PVdC; ExxonMobil Method
	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, 0.2 sec; ExxonMobil Method
Film Tensile Strength at Break, MD	135 MPa	19600 psi	7.9 in/min, 4.9 in Jaw Separation; ExxonMobil Method
Film Tensile Strength at Break, TD	275 MPa	39900 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	5.0 % @Temperature 135 °C, Time 432 sec	5.0 % @Temperature 275 °F, Time 0.120 hour	ExxonMobil Method

Optical Properties	Metric	English	Comments
Haze	1.7 %	1.7 %	ExxonMobil Method
Gloss	98 %	98 %	45°; 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	126°F	VLTS, 36.3 psi, 0.2 sec
Nitrogen Transmission Rate	0.645 cc/100 in^2/ 24 hr	75% RH, ASTM D1434
Yield	23900 in^2/lb	

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