ExxonMobil Bicor™ 52MBR666 OPP Film

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

Material Notes:

Product Description: Bicor 52MBR666 is a biaxially oriented transparent polypropylene film coated with humidity resistant acrylic on both sides. This film is designed to wrap products with a high moisture content or products stored in humid conditions. 52MBR666 is optimized for overwrap applications in paper ream packaging.Availability: Africa & Middle East, Asia Pacific, Europe, Latin America, North America and South AmericaKey Features:Excellent seal retention on both sides in humid conditionsLow sealing thresholdHigh seal strengths even under low pressure sealingGood aroma barrierExcellent packaging machine performanceOutstanding optical propertiesExcellent stiffnessIdeal support for normal ink systemsWater-based coatingsFeatures:Broad Seal RangeFlavor & Aroma BarrierHumidity ResistantHumidity Resistant Acrylic CoatedApplications:Box OverwrapFresh ProduceFrozen FoodHealth and Beauty CareHousehold and DetergentsIce CreamIndustrialPaper Ream wrapUses:Box Overwrap Flexible PackagingHFFS Flexible PackagingPre-made Bags – Flexible PackagingVFFS Flexible PackagingProcessing Method: Solvent Flexographic Printing, Solvent Rotogravure Printing and Surface Print UnsupportedInformation provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-Bicor-52MBR666-OPP-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Transmission	0.404 g/m²/day @Temperature 23.0 °C	0.0260 g/100 in²/day @Temperature 73.4 °F	85% RH; ExxonMobil Method
	2.48 g/m²/day @Temperature 38.0 °C	0.160 g/100 in²/day @Temperature 100 °F	90% RH; ExxonMobil Method
Oxygen Transmission Rate	543 cc/m²/day @Temperature 23.0 °C	35.0 cc/100 in²/day @Temperature 73.4 °F	0% RH; ExxonMobil Method
	551 cc/m²/day @Temperature 23.0 °C	35.5 cc/100 in²/day @Temperature 73.4 °F	Wet, 75% RH; ExxonMobil Method
Thickness	50.8 microns	2.00 mil	ExxonMobil Method
Coating Weight	46.6 g/m²	29.1 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	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

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.23	0.23	Both Sides; ExxonMobil Method
Seal Strength	200 g/25 mm @Pressure 0.00345 MPa, Temperature 100 °C	200 g/in @Pressure 0.500 psi, Temperature 212 °F	LPS, 0.5 sec; ExxonMobl Method
	610 g/25 mm @Pressure 0.276 MPa, Temperature 130 °C	610 g/in @Pressure 40.0 psi, Temperature 266 °F	Otto Bruger, 0.5 sec; ExxonMobl 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	1.4 %	1.4 %	ExxonMobil Method
Gloss	85 %	85 %	45°; ExxonMobil Method

Descriptive Properties	Value	Comments
Heat Seal Range	50°C	36.3 psi (0.25 MPa), 0.2 sec
Yield	14800 in^2/lb	

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