

Honeywell MAP-Shield™ AF Generation 2 Shrinkable Barrier Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Alcohol (EVOH) , Nylon

Material Notes:

Description: MAP-Shield™ AF shrinkable barrier film is ideal for modified atmosphere packaged (MAP) food products in barrier trays for extended shelf life protection. The coextruded, biaxially oriented film of nylon and EVOH, combined with metallocene PE and anti-fog materials gives you high gas barrier lidding and provides leak-proof, destruct tamper-evident seals on plastic and foam barrier food trays.

Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-MAP-Shield-AF-Generation-2-Shrinkable-Barrier-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0440 lb/in ³	Yield Density
Water Vapor Transmission	14.28 g/m ² /day	0.9196 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Oxygen Transmission Rate	<= 0.310 cc/m ² /day	<= 0.0200 cc/100 in ² /day	50°F (10°C) / 80%RH; ASTM D3984
	<= 0.780 cc/m ² /day	<= 0.0502 cc/100 in ² /day	68°F (20°C) / 65% RH; ASTM D3985
Thickness	38.1 microns	1.50 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	100 - 125 %	100 - 125 %	ASTM D882
Film Elongation at Break, TD	85 - 100 %	85 - 100 %	ASTM D882
Tensile Modulus	1.078 GPa	156.3 ksi	MD; ASTM D882
	1.098 GPa	159.3 ksi	TD; ASTM D882
Coefficient of Friction	0.38	0.38	MD, film to film, side2/side2; ASTM D184
	0.50	0.50	MD, film to film, side1/side1; ASTM D1894
Coefficient of Friction, Static	0.15	0.15	TD, film to film, side 2/side 2; ASTM D1894
	0.21	0.21	TD, film to metal, side 1/metal; ASTM D1894
	0.31	0.31	MD, film to metal, side 1/metal; ASTM D1894
	0.38	0.38	TD, film to film, side 1/side 1; ASTM D1894

Mechanical Properties	Metric	English	Comments
	0.40	0.40	TD, film to metal, side 2/metal; ASTM D1894
	0.42	0.42	TD, film to film, side 1/side 2; ASTM D1894
	0.46	0.46	MD, film to metal, side 2/metal; ASTM D1894
	0.53	0.53	MD, film to film, side 1/side2; ASTM D1894
Tear Strength Test	500	500	graves tear TD, grams/mil; ASTM D1004
	500	500	graves tear MD, grams/mil; ASTM D1004
Elmendorf Tear Strength, MD	2.02 g/micron	51.3 g/mil	
Elmendorf Tear Strength, TD	0.5248 g/micron	13.33 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	138 MPa	20000 psi	ASTM D882
Film Tensile Strength at Break, TD	138 MPa	20000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	-20.0 %	-20.0 %	350°F / 177°C - 10 min.; ASTM D1204
	-15.0 %	-15.0 %	212°F / 177°C - 30 sec.; ASTM D1204
	-4.00 %	-4.00 %	140°F / 177°C - 30 sec.; ASTM D1204
Shrinkage, TD	-20.0 %	-20.0 %	350°F / 177°C - 10 min.; ASTM D1204
	-10.0 %	-10.0 %	212°F / 177°C - 30 sec.; ASTM D1204
	-1.00 %	-1.00 %	140°F / 177°C - 30 sec.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 7.0 %	<= 7.0 %	ASTM D1003
Gloss	70 - 100 %	70 - 100 %	at 20°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Strength	1600 g	ASTM F1306

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