

# Frontier Packaging Map Tray



## Product Specifications

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**Item Numbers:** 714-03-200 – White 8.83" x 6.76" x 1.96" Tray - 3360/pallet  
714-03-203 – White 8.83" x 6.76" x 1.96" 4-Cell Tray - 3240/pallet  
714-03-201 – White 8.83" x 6.76" x 1.0" Tray - 3150/pallet  
714-03-202 – White 8.83" x 6.76" x 1.0" Tray - 3150/pallet

**Structure:** Dow C104 copolymer PP with a barrier and sealing laminate from Ampac applied to the top surface.

**Material Breakdown:** Top Barrier Laminate – LDPE for sealing/tie layer/EVOH/tie layer/PP sealant layer PP Structure – 15% Virgin Cap Layer, 70% Center Layer (80% regrind, 20% virgin), 15% Virgin Bottom Cap Layer.

**Freezer Test:** CoPP rated at -22°F to 248°F under "normal use".

**Current Uses/Markets:** Mainly used for food packaging. Used frequently in the meat packing industry in MAP (Modified Atmosphere Packaging) for ground beef, steaks and pork.

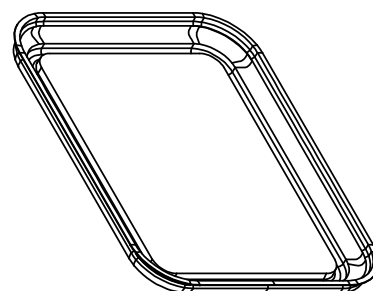
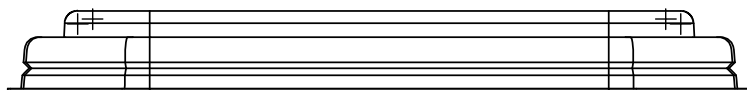
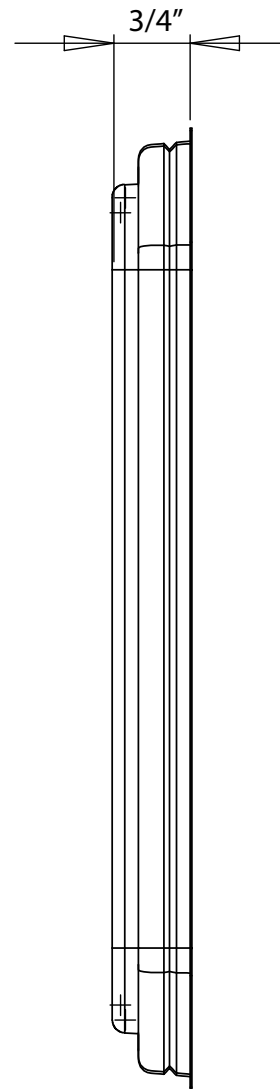
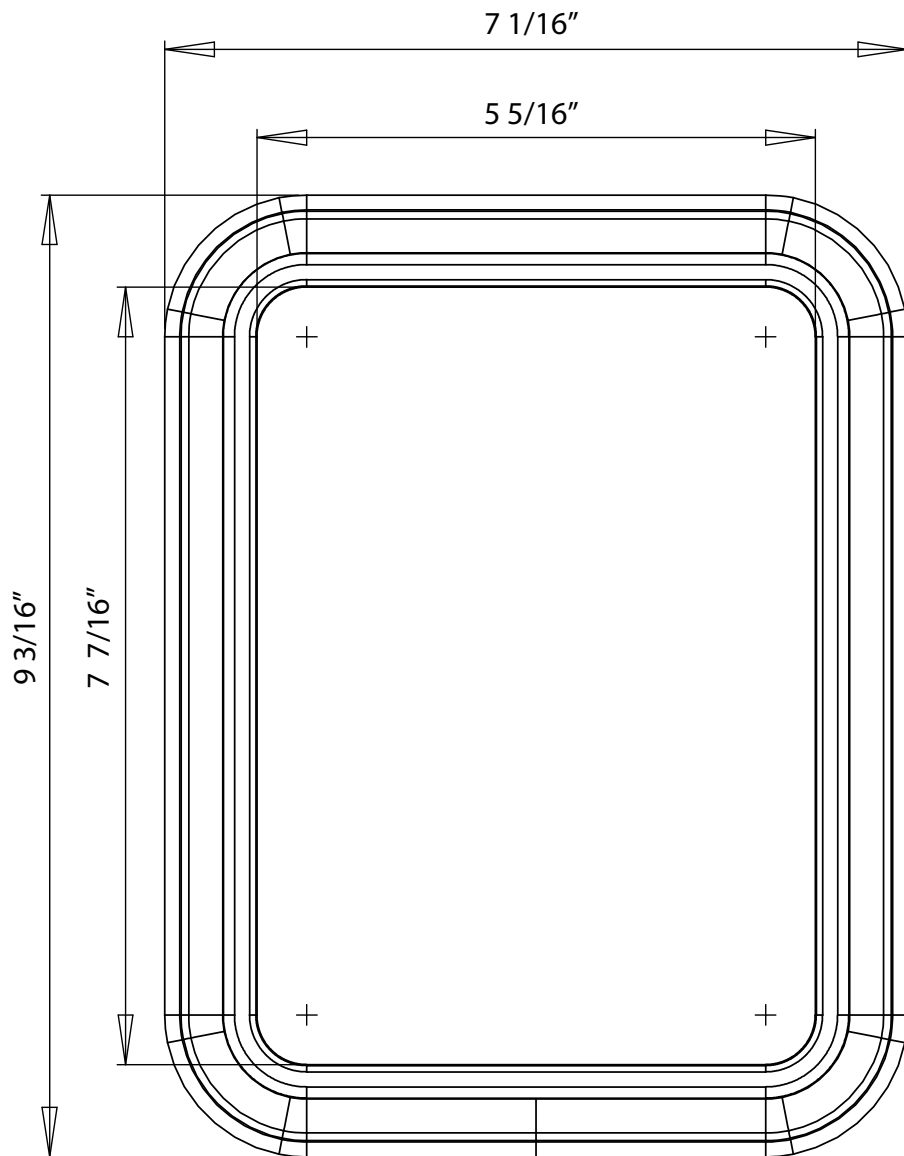
**Oxygen Transmission Rate:** EVOH Barrier - .025 cc-mil/100 sq. in.-24hrs.@23°C  
CoPP – 150 cc-mil/100 sq. in. – 24 hrs. @ 23°C.

**Moisture Transmission Rate:** 0.7 g-mil/100 sq. in. -24 hrs @ 100°F and 90% R.H.

**Map Lid Information:** 9.188" x 7.062" x 0.75" [Spec Sheet Attached](#)

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The above are base upon information obtained from our material suppliers. Product performance and safe use is dependent upon a variety of circumstances. Product performance therefore should not be construed as warranties or representations about the product performance nor as instructions for safe use, but rather as general indications about the products attributes.





# Lid 1050/550 Lidstock

**An oxygen-barrier film for hermetically sealing Cryovac® barrier foam and rigid plastic trays.**

Processors can now produce more attractive barrier foam packages and assure customers longer shelf life with Cryovac® modified-atmosphere packaging. A whole family of materials with oxygen-barrier properties is now available for a broadening range of MAP applications, including barrier foam trays.

To ensure a higher integrity package with barrier foam trays, Cryovac has developed Lid 1050 and Lid 550 lidstock, clear, multilayer films that greatly enhance the merchandising appeal of both fresh and processed food products.

Cryovac® Anti-Fog Lidstock is designed with an oxygen-barrier layer to maintain the desired gas mixture, plus two internal abuse layers providing additional protection. In the packaging process, the lidstock hermetically seals to the performed barrier foam tray. The lidstock-and-tray combination, together with gas flushing, creates the desired high and low oxygen modified atmosphere that substantially prolongs the freshness of the product.

The anti-fog properties built into the lidstock are an important merchandising benefit. During refrigerated storage and retail display, Lid 1050 and Lid 550 materials remain fog-free and sparkling in appearance, providing a full view of the product. Lid 1050 is designed for non-fresh red meat products while Lid 550 is ideal for fresh red meat applications.

The lidstock is available plain and printed. (See printable Lid 1050/500 Property Sheet.)

## Highlights

**Remains clear  
under refrigeration.**

**High oxygen barrier.**

**Extends shelf life.**

**Abuse-resistant.**



To find out more about Cryovac's total systems approach to packaging, phone your Cryovac specialist at the nearest Regional office.

100 Rogers Bridge Rd., Build. B  
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(562) 926-0418

# PROPERTIES

<b>Applications</b>	Lidstock for Barrier Foam Tray
<b>Sales Type</b>	LID 550/LID 1050
<b>Nominal Total Gauge</b>	1.0 mils
<b>Barrier Type</b>	EVOH
<b>Sealant Type</b>	LLDPE
<b>Widths Available</b>	18.5, 20.0, 34.0
<b>Roll Footage (Ft.)</b>	5,250
<b>Tensile Strength at Break (1000 psi)</b>	Longitudinal-14.7 Transverse-13.0
<b>Oxygen Transmission cc (24 hr., m<sup>2</sup>)</b>	
40°F., 100% RH	Less than 20.0
40°F., 0% RH	Less than 6.0
73°F., 0% RH	Less than 25.0
<b>Moisture Vapor Transmission Gms. (24 hr., 100 in.<sup>2</sup>)</b>	Less than 0.10
40°F., 100% RH	
<b>Haze ASTM D-1003</b>	9.5
<b>Clarity ASTM D-1746</b>	70.2
<b>Recommended Storage Conditions</b>	90°F. Max. Dry Storage
<b>Minimum Use Temperature</b>	-60°F.

Data Reference \*TSR 26530.

The above are nominal specifications. Performance will vary with each application.

This information represents our best judgment based on the work done, but the Company assumes no liability whatsoever in connection with the use of information or findings contained herein.

**CRYOVAC**  
Sealed Air Corporation

Cryovac, Duncan, SC 29334

# RL7xxBAF



## Laminates - Lidding Films

### SALES TYPES

RL725BAF, RL730BAF, RL735BAF, RL740BAF, RL745BAF

### GENERAL DESCRIPTION

A laminated anti-fog film with a PET skin and a PE barrier sealant

### Attachments

### APPLICATION PROPERTIES

Heat Seal Range:	120 - 180°C (248 - 356°F)
Nominal Seal Strength:	8 lbs / linear inch
EZ-Open Seal Strength:	N/A
Core Diameter:	N/A
Storage Conditions (Rolls):	25°C, 80% R.H. maximum, up to one year
Opacity:	N/A

### PERMEABILITY PROPERTIES OF AVAILABLE GAUGES (Typical Values)

Structure	Gauge (mils)	OTR at 23°C, 0% R.H.		MVTR at 38°C, 100% R.H.	
		cc/m <sup>2</sup> /day	cc/100 In <sup>2</sup> /day	g/m <sup>2</sup> /day	g/100 In <sup>2</sup> /day
RL725B	2.5	2.9	.19	8.2	.53
RL730B	3.0	2.5	.16	7.0	.45
RL735B	3.5	2.0	.13	6.5	.42
RL740B	4.0	1.7	.11	5.7	.37
RL745B	4.5	1.6	.10	5.0	.32
ASTM Method		D-3985		F-1249	

### FOOD LAW GUIDELINES

These materials comply with the requirements of the Federal Food, Drug, and Cosmetics Act, as amended, for the packaging of food. To obtain further information regarding the specific requirements and limitations for the use of this packaging material with food products, contact Cryovac Customer Service for a Letter of Guarantee.

### LETTER OF GUARANTEE

This statement is not intended to be used as a Letter of Guarantee. Contact Customer Service for a Letter of Guarantee.

### DISCLAIMER

This information represents our best judgment based on work done, but the company assumes no liability whatsoever in connection with the use of information or findings contained herein.



# MITSUBISHI GAS CHEMICAL AMERICA, INC.

520 MADISON AVENUE, 17<sup>th</sup> FLOOR, NEW YORK, NY 10022-4213 TEL: 212-752-4620 FAX: 212-758-4012 www.mgc-a.com

June 13, 2011

To: Frontier Packaging, LLC

## **Product Information of AGELESS® ZPT- 50J**

- |  |   |
|--|---|
| <b><u>1. Product</u></b>                       | <b>Contents :</b> Iron powder ( activated ), Diatomaceous earth,<br>Also include electrolyte materials, activated carbon and moisture.<br><b>Packing Material :</b> PET / Paper / PE<br><b>Dimension :</b> 40 X 40 mm ( reference value )<br><b>Weight :</b> 1.74g / unit ( reference value )<br><b>Shape :</b> Rectangular loose packet. |
| <b><u>2. Master Bag</u></b>                    | <b>Quantity :</b> 200 loose packets in a master bag.<br><b>Dimension :</b> 250 X 290 mm.<br><b>Material :</b> OPP / Barrier nylon / PE.   |
| <b><u>3. Carton Box</u></b>                    | <b>Dimension :</b> 440 x 300 x 200 mm ( inner size )<br><b>Quantity :</b> 30 master bags in a carton ( 6,000 packets in a carton )<br><b>Markings :</b> Manufacturer's name, Product Name, Lot No., Quantity  |
| <b><u>4. Guarantee (Oxygen Absorption)</u></b> | Each one packet absorbs oxygen to 0.1% or less in 250 ml of air within 48 hours under 25±2°C with 10g silica gel.   |
| <b><u>5. Handling Instructions</u></b>         | ① To confirm the tightness ( vacuum ) of master bag.<br>② Use the packets within 4 hours once those are taken out from the master bag.<br>(For the products having water activity ( Aw.) 0.65-0.95)<br>③ Use the packets within 1 hour if the packet used for the products having water activity less than 0.65.                          |
| <b><u>6. Storing Instructions</u></b>          | Avoid from direct sunlight and store below 30°C.  |
| <b><u>7. Guarantee Period</u></b>              | 6 months from the date of shipment  |





# MITSUBISHI GAS CHEMICAL AMERICA, INC.

655 THIRD AVENUE, 24<sup>th</sup> FLOOR, NEW YORK, NY 10017 TEL: 212-687-9030 FAX: 212-687-2810 www.mgc-a.com

June 13, 2011

To: Frontier Packaging, LLC

## **Product Information of AGELESS® ZPT- 100MBC**

- |  |  |
|--|--|
| <b><u>1. Product</u></b>                       | <b>Contents:</b> Iron powder (activated), Diatomaceous earth,<br>Also include electrolyte materials, activated carbon and moisture.<br><b>Packing Material:</b> PET / Paper / PE<br><b>Dimension:</b> 45 X 40 mm (reference value)<br><b>Weight:</b> 2.8 g / unit (reference value)<br><b>Shape:</b> Rectangular loose packet. |
| <b><u>2. Master Bag</u></b>                    | <b>Quantity:</b> 100 loose packets in a master bag.<br><b>Dimension:</b> 220 X 300 mm.<br><b>Material:</b> OPP / Barrier nylon / PE.   |
| <b><u>3. Carton Box</u></b>                    | <b>Dimension:</b> 440 x 300 x 140 mm (inner size)<br><b>Quantity:</b> 30 master bags in a carton (3,000 packets in a carton)<br><b>Markings:</b> Manufacturer's name, Product Name, Lot No., Quantity  |
| <b><u>4. Guarantee (Oxygen Absorption)</u></b> | Each one packet absorbs oxygen to 0.1% or less in 500ml of air within 48 hours under 25±2°C with 10g silica gel.   |
| <b><u>5. Handling Instructions</u></b>         | ① To confirm the tightness (vacuum) of master bag.<br>② Use the packets within 4 hours once those are taken out from the master bag.<br>(For the products having water activity (Aw.) 0.65-0.95)<br>③ Use the packets within 1 hour if the packet used for the products having water activity less than 0.65.                  |
| <b><u>6. Storing Instructions</u></b>          | Avoid from direct sunlight and store below 30°C.   |
| <b><u>7. Guarantee Period</u></b>              | 6 months from the date of shipment   |