

# Webinar

by Avery Dennison - ASEAN

**Innovations in Food & Beverage Labelling** 

2022

# Welcome to the Webinar

Starts at 10:30 AM





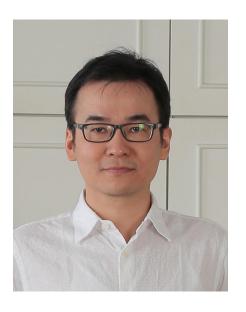
# Agenda

- Packaging Trends in the F&B Market
- Label Solutions for Food & Beverage
- Digital Identification in the Food Industry





# Speakers for Today



Hengky Tanoyo Segment Development Manager, Avery Dennison LGM Indonesia

10 years of experience in the packaging industry, including 6 years handling B2B key account management and 1 year in business development.



# Packaging Trends in the Food & Beverage Industry



Sustainable Packaging

- Recycled content
- Reusable packaging
- Recyclable packaging
- Biodegradable & Compostable
- Fiber-based solutions



Functional Packaging Enable Convenience

- On-the-go packaging
- Easy-open and reseal packaging
- Extend freshness of the product



Transparent and Clear Labeling

- Clear display of product freshness
- Minimal design to highlight product value



**Smart Packaging** 

- Consumer engagement
- Anti-counterfeiting
- Temperature sensors to ensure freshness along the supply chain

# **Label Solutions for Food and Beverage**

#### Food Adhesives

Take advantage of food approved labeling solutions that meets the required performance for direct contact, low temperature and retort process.

## Sustainable Packaging

Lower your footprint, enable recycling, reuse and compostability with our portfolio of sustainable labeling materials.

#### Reclosure

Put your consumers first with elegant, convenient packaging that is designed to be opened and closed many times.

### **Digital Solutions**

Cut waste, ensure freshness and maintain quality with RFID labels that reassure consumers and optimize your supply chain.





# **Direct Food Contact Labeling**



### S2800

A special purpose permanent, acrylic based adhesive for direct food

#### contact

- ✓ Good adhesion at room and cold temperature
- ✓ Approved for direct food contact onto moist and fatty foods
- ✓ Complies with European food regulation 1935/2004/EC

#### **Applications**

- ✓ Direct dry food
- ✓ Cheese & dairy
- ✓ Meat & animal
- ✓ Chilled & frozen



### Z3000

A removable hot melt adhesive designed for adhesion to fresh fruits and vegetables with edible skin.

- ✓ A high initial tack label designed for all fruits and vegetables, including fruits with textured surfaces e.g. kiwi, avocado, etc.
- ✓ Complies with FDA 175.105 and FDA175.125B

- ✓ Fresh fruits
- ✓ Vegetables

# Low Temperature Labeling



### C7501

A permanent, emulsion acrylic adhesive featuring excellent cold temperature performance.

- ✓ Good room and cold temperature performance
- ✓ Ideal for applications where temperature is below freezing point
- ✓ Complies with FDA 175.105 for indirect food contact

#### **Applications**

Chilled products(e.g. refrigerated meat)



### C2075

A special purpose rubber based freezer grade permanent adhesive.

- ✓ Designed for deep freeze and low temperature
- ✓ Good adhesion on slightly frosted surfaces
- ✓ Resistant to moisture during thawing
- ✓ Complies with FDA 175.105 for indirect food contact

- ✓ Chilled products
- ✓ Freezer products
- ✓ Wet surfaces

# **Special Applications Labeling**



### S333F

A clear acrylic emulsion adhesive for food applications involving retort process.

- ✓ Able to withstand high temp and humidity during retort process
- Approved for direct food contact Direct EU No.10/2011

#### **Applications**

✓ Retort process (e.g. ready meals, sauces, can food)



### S477A

A permanent, emulsion acrylic adhesive featuring high initial tack for labeling on freshly blown bottles and/or hot filling process.

- ✓ Able to withstand dimension changes of the container during hot filling process, preventing wrinkling and lifting of the labels
- ✓ Strong adhesion at temperatures of 80°C, even on low surface-energy plastics e.g. HDPE

- ✓ Hot filling of liquid foods or beverages
- ✓ Freshly blown bottles

### **Heat Seal Reclosure Solution**



## Rigid Tray + Heat Seal Reclosure

Features a heat sealable liner - entire label construction can be heat sealed onto PET trays.

- ✓ Reduced total packaging cost compared to clamshell containers
- √ 44% to 47% reduction in plastic usage compared to clamshell containers
- ✓ Less space required during transit and on in store display
- ✓ Meets the requirement of FDA FCN 1716 for "Direct Food Compliance"

- ✓ Fresh produce
- ✓ Shelf stable baked goods
- ✓ Confectionary
- ✓ Sweet and savory snacks
- ✓ Deli meats
- ✓ Cheese

### **New Innovation**



# PVDC-free OXYB (oxygen barrier) reclosure label

The first PVDC-free oxygen barrier reclosure label to support recycling

- ✓ Offer easy opening with repeated resealability
- ✓ Deliver transparency that is required in "see-through" food packaging
- ✓ Extend product shelf life (very low oxygen transmission rate (OTR) of 8 cc/m2/24 hours)
- ✓ Free of PVDC which is considered a contaminant for the recycling stream

- ✓ Fresh herbs
- ✓ Biscuits
- ✓ Sliced and fresh meats
- ✓ Cheese
- ✓ Prepared fruit
- ✓ Savory snacks
- ✓ Confectionery
- ✓ Packaged produce

### **Enable Reuse for Returnable Glass Bottles**





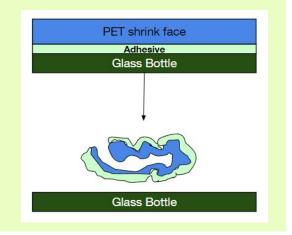
## Wash-off S6000

Designed for returnable glass bottles

- ✓ Facilitates easy label removal from returnable bottles
- ✓ Proven Wash-off performance in conventional bottle washers (+65°C)
- No adhesive residues left on the bottle or in washer
- ✓ A clear-on-clear label material that is not affected by humid environments

#### How it works:

The clean removal of the label is based on the shrinkage of the facestock in combination with the Wash-off adhesive.



# **Enable Recycling**





# CleanFlake<sup>TM</sup>

Enable bottle-to-bottle (B2B) recycling of PET bottles into food grade packaging

- ✓ Adheres to APR design guidelines for PET and HDPE recycling
- ✓ One solution that supports PET B2B recycling & HDPE recycling (mono-material)
- ✓ Available with various PP and Flex+ labels

#### PET B2B Recycling Fundamentals

CleanFlake significantly increases the **yield and quality** of rPET, leaving **no residue** on the resulting PET flakes.

#### **HDPE Recycling Fundamentals**

The labels form a mono-material construction with the HDPE bottles and can be recycled together in the recycling process.

# Biodegradable & Compostable





### S9500

Facestock and adhesive combinations that can be reintroduced into nature

- ✓ Carries the "OK Compost" certificate according to EN13432 regulations for industrial composting
- ✓ Available with a whole range of paper and biodegradable film facestocks (PLA and NatureFlex)
- ✓ Direct food contact approval for dry, non-fatty foods

#### **Benefits**

Helps brand owners, retailers & converters meet growing demand for sustainable solutions for difficult to recycle packaging

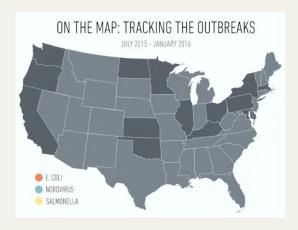
- ✓ Indirect labeling on biodegradable & compostable food packaging
- ✓ Direct labeling on dry food (fruits & vegetables)
- ✓ Beverages, especially on biodegradable bottles (e.g. PLA)





#### **Food Industry Trends**

# **Technology Drivers**









# Safety and Authenticity

- Food safety
- Recall management
- Brand cost

### Speed and Efficiency

- New delivery models
- Automation
- New competitors

# Sustainability: Food Waste

- Consumer awareness
- Tight profit margins
- Inventory complexity

## Inventory Management

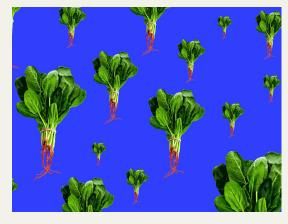
- Turnover / wages
- Tight profit margins
- Inventory complexity

#### **Food Industry Trends**

# **Technology Drivers**









### **Omnichannel Grocery**

- New delivery models
- Labor impact
- Inventory availability
- New competitors

### New Store Models

- Grab and Go
- New competitors
- Infrastructure investment

#### **Know Your Food**

- Hyper local sourcing
- Diet awareness
- Transparency and sustainability

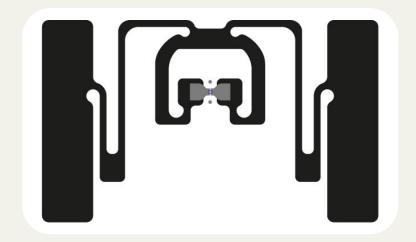
## Consumer Engagement

- Loyalty programs
- Grab and go
- Connected products
- In store shopping experience

# **Introducing RFID Technology**

Avery Dennison Smartrac is the world's largest RFID partner, and has the most sustainable product portfolio.

UHF RFID TAG (ULTRA HIGH FREQUENCY)



# NFC TAG (NEAR FIELD COMMUNICATION)



#### **Introducing RFID Technology**

# **UHF RFID Enables Faster Inventory Counts**



### Clipboard and pencil

85% accurate

80 minutes



#### **Barcode scanning**

92% accurate

8 minutes



#### **RFID** tagging

99.9% accurate

8 seconds

Inventory count times based on 300 SKU's. Stores able to scan over 30,000 units per hour.



**Introducing RFID Technology** 

# NFC Enables Consumers to Interact with Products Digitally

Compatible with vast majority of mobile phones

All iPhones and most Android phones

**Access Digital Data** 

By tapping phone to NFC tag

**Ensure authenticity** 

Using unique serial numbers and security features



### **RFID** for Food



# Reduction in Expired Food Waste

- Supply chain visibility drives efficiency and enables effective first-in first-out strategies
- Store-level visibility aids promotional markdowns for near-expiry items



Improved Availability and Stock Management Improved sales, stock reduction

High Speed Retail Check-Out 7 to 15 x faster with RFID tagging (IBM Survey 2017)



Improved Utilization of Returnable Trays and Totes Track their location in suppliers and stores, loss reduction



Food Safety
End-to-end traceability
guarantees product
authenticity, expiry accuracy
and aids recall management

# RFID Product Portfolio for Food and Beverages



#### Standard RFID Labels

Inlays with food grade materials and adhesives, suitable for meat, fish, packaged foods and ready meals.



#### On-metal Labels

Flag tags and foam labels for canned drinks, foil based packaging, and liquid items.



#### Microwave-safe Labels

Tags that resist excessive heating and sparking in microwaves.



#### Passive Temperature Sensor

RFID with integrated temperature sensing capabilities for temperature audits.



#### Standard NFC inlay

Installed in packaging or under decorative labels.



#### **Tamper Evident NFC**

Alerts the user when product packaging has been opened.



#### NFC Temperature Logger

Temperature data is logged autonomously and uploaded via NFC or Bluetooth.

# For more information:

Please feel free to reach out to our <u>Avery Dennison team in your countries</u> or contact below person at anytime.

We will be very happy to contact with you again soon.

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