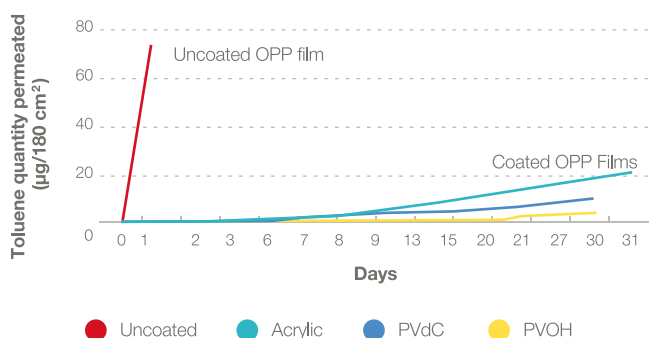


# Arma barrier performance

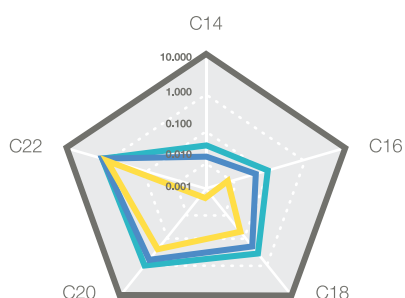
Premium protection with water based Coated OPP films

## TOLUENE PERMEATION TEST



## BARRIER TO MINERAL OILS - MOSH

Maximum permeation rates over 40 days at 40°C  
(relative values to 20 µm OPP on a scale of 10)



- 20MB400 - Coex OPP
- 20MB666 - Acrylic/Acrylic OPP
- 21MB777 - Acrylic/PVdC OPP
- 21MB866 - Acrylic/PVOH OPP

## Coated OPP film barrier solutions

### ACRYLIC

- Excellent flavor and aroma barrier
- Good protection from external contamination (mineral oils)

### PVdC

- Excellent flavor and aroma barrier
- Good protection from external contamination (mineral oils)
- Good moisture barrier
- Good gas barrier (O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>)
- Resistance to fats (swelling)
- Resistance to alcohols (whitening)

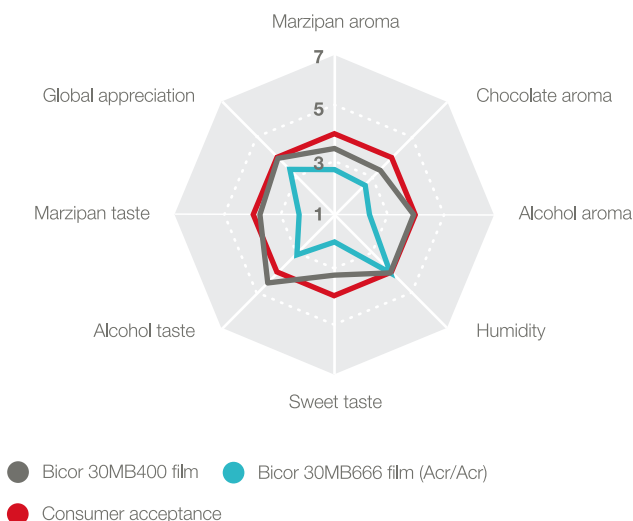
### PVOH

- Excellent flavor and aroma barrier
- Great protection from external contamination mineral oils
- Outstanding gas barrier (O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>)
- Moisture sensitivity use in dry applications



## ACRYLIC

### CREAM FILLED SPONGE CAKE SENSORY ANALYSIS

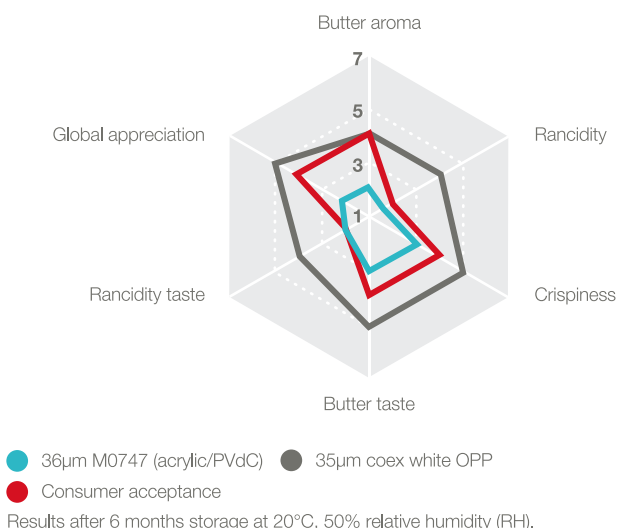


#### Enhanced shelf life with acrylic coating

A professional panel assessed the quality of these cream filled sponge cakes with marzipan and documented improved quality over a 12 week storage period at 20°C and 50% relative humidity (RH). Low rating is favorable on scale of 1-7. Jindal Films data.

## PVdC

### BUTTER BISCUITS SENSORY ANALYSIS



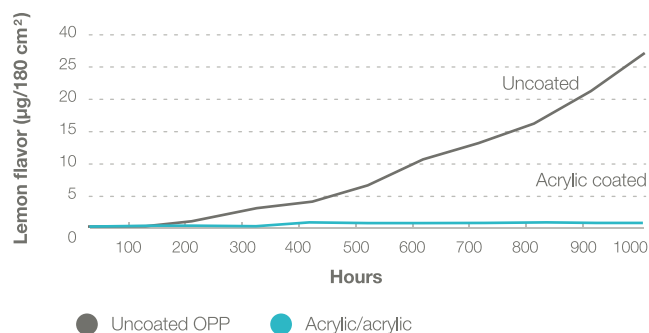
Results after 6 months storage at 20°C, 50% relative humidity (RH).

#### Safeguarding freshness and quality with PVdC

The sensory panel confirms that PVdC coating offers a longer product shelf life and better biscuit taste than a coextruded white film. Low rating is favorable on scale of 1-7. Jindal Films data.



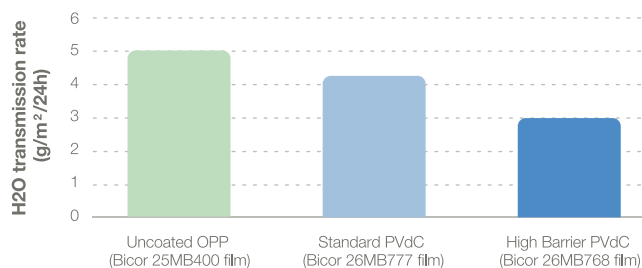
### D-LIMONENE PERMEATION



#### Flavor aroma protection provided by acrylic

Acrylic coating provides excellent barrier to aroma, like lemon flavors such as D-limonene, keeping products tasting good and fresh. Jindal Films data.

### MOISTURE BARRIER PERFORMANCE THROUGH COATING



Water vapor Transfer Rate at 38°C 90% relative humidity (RH).

#### Moisture barrier through coating

Moisture barrier may be improved by coatings. While maintaining transparency, film water vapor barrier may be increased with PVdC coating. High barrier PVdC coating can be found on MB768 film type. Jindal Films data.

Contact your Jindal Films representative for more information

[www.jindalfilms.com](http://www.jindalfilms.com)

[info@jindalfilms.com](mailto:info@jindalfilms.com)

**Jindal**  
Films