## Prevent oxygen transmission at high temperature and humidity

# Reduce heat shrinkage of OPP film

## Z345 UV Heat-Resistant Barrier Coating

**(in development; patent filed)**

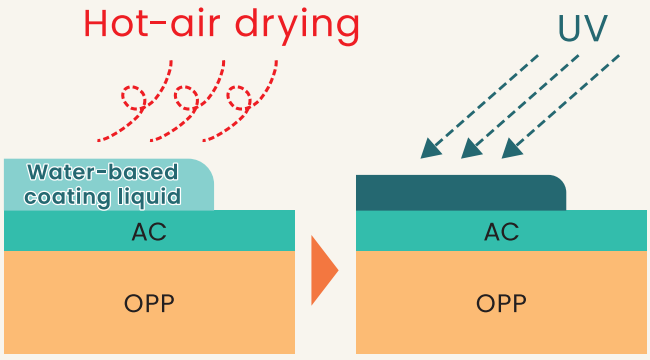
Coatings that prevent oxygen transmission with high humidity &
heat shrinkage of OPP film
Z345 Barrier Coat

- **Protects packaged contents from oxygen**
- **Maintains oxygen barrier performance at high temperature and humidity**
- **Reduces OPP heat shrinkage and improves bag-making performance**

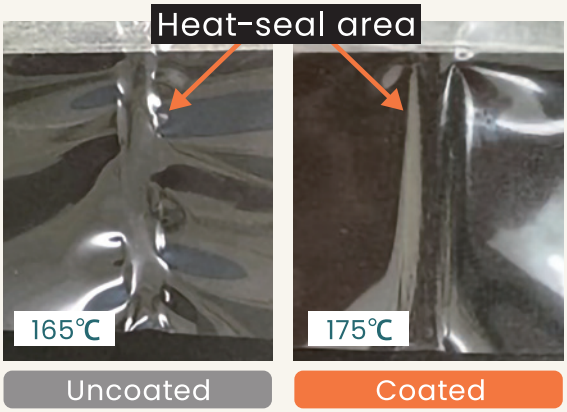
## Applications

Food packaging, industrial films and electronic devices

## Barrier-layer formation




## Heat-seal resistance




## Barrier performance

| Structure | OTR | | | WVTR |
|---|---|---|---|---|
| | 23℃ 65% | 23℃ 90% | 27℃ 90% | 40℃ 90% |
| OPP#30/AC/Z345 | 0.4 | 0.6 | 0.7 | 5.4 |
| VMCPP#25/Z345 | 0.8 | 0.5 | 1.1 | 10 |
| OPP#30/AC/Z345/CPP#60 | 0.3 | 0.3 | 0.4 | 2.8 |
| OPP#20/Z345/VMCPP#20 | <0.1 | <0.1 | <0.1 | 0.1 |

[OTR] cc/(m²·day·atm); [WVTR] g/(m²·day); [coating weight] AC: 0.5 g/m², Z345: 2 g/m²

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