

# valOR<sup>®</sup> Active A400 SERIES

## MONOLAYER APPLICATION SOLUTIONS

The valOR Active A400 Series is our latest nylon-free barrier additive for monolayer plastic container applications. This innovative new series includes a unique two-pellet system that offers application, performance and appearance advantages.

**SHERWIN-WILLIAMS<sup>®</sup>**

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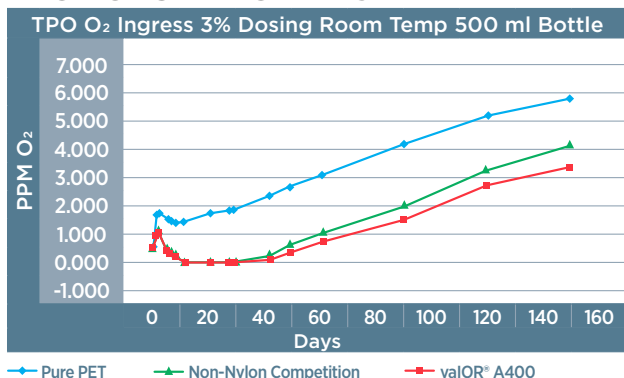
# INNOVATIVE SOLUTIONS

We understand the need for solutions that last. valOR A400 shows an improved barrier performance with better initial activation and oxygen scavenging capacity compared to other non-nylon barriers, leading to a longer shelf life.

## FEATURES AND BENEFITS

- Nylon-free
- Use for monolayer applications
- Fast oxygen scavenging
- High clarity with polyethylene terephthalate (PET)
- Compatible with recycled PET (rPET) grades
- No need for nitrogen purging during use
- Excellent pre-form shelf life
- Flexibility to use any grade of PET and masterbatch
- Recycling tests (i.e., European PET Bottle Platform (EPBP) oven tests) indicate better performance on yellowing tests than current non-nylon barriers

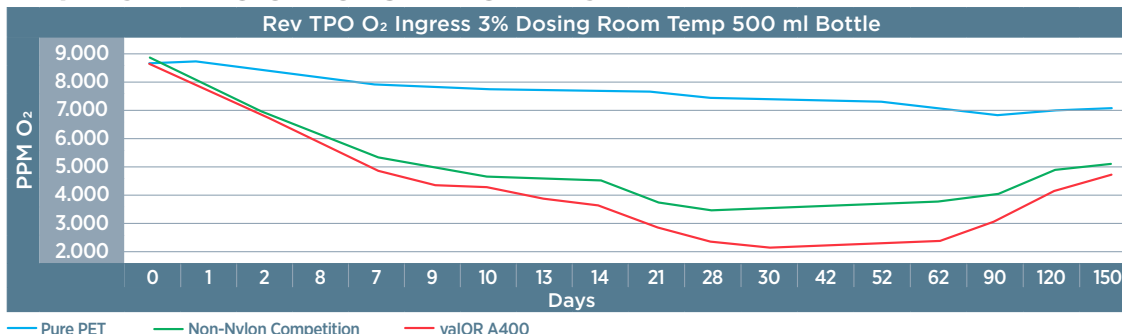
### TPO PURGED BOTTLES



valOR A400 shows better initial activation vs. competition and better O<sub>2</sub> scavenging capacity, allowing for longer shelf life.



### REVERSED TPO UNPURGED BOTTLES



valOR A400 yields faster reduction of O<sub>2</sub> in fill while preventing O<sub>2</sub> ingress. It also provides greater O<sub>2</sub> scavenging capacity compared to other non-nylon barriers.



## TWO-PELLET SYSTEM

Our unique two-pellet system offers clear advantages in:

### APPLICATION

- No need for Nitrogen or inert gas purges during use
- Allows for easy storage and use

### PERFORMANCE

- Greater oxygen scavenging capacity
- Longer shelf life
- Less degradation

### APPEARANCE

- Improved clarity in both clear and colored bottles

## SCAVENGING PERFORMANCE

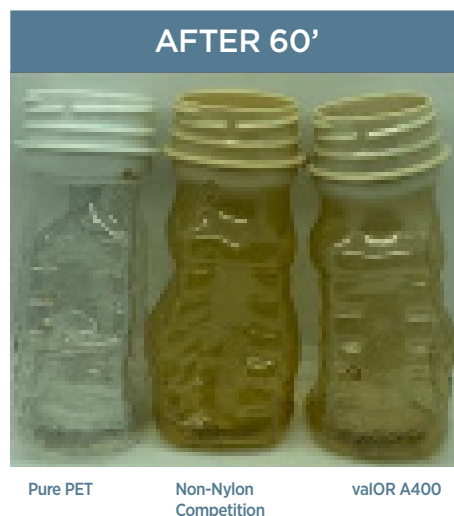
The valOR A400 Series offers faster oxygen scavenging and increased scavenging capacity compared to other non-nylon barriers. It can be used with up to 100% rPET.

## IMPROVED RECYCLING

valOR A400 has improved bottle-to-bottle recycling compared to alternative non-nylon barriers. It shows less yellowing and better clarity in the side wall and neck compared to alternate non-nylon barriers.

### BOTTLE CLARITY TESTING

EPBP OVEN TEST AT 220°C



valOR A400 shows much less yellowing compared to other non-nylon barrier competition, allowing for improved bottle-to-bottle recycling.

Note: The goal of the EPBP Quick Test QT 500 is to detect impurities, additives, coatings or glues that discolor during heating and thus limit the use of rPET. The degree of yellowing on these bottles indicates the potential impact of color development during the EPBP test and the recycling process.

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As the leading global supplier of packaging coatings, Sherwin-Williams helps develop, protect and advance the packaging design and heritage of many of the world's best-known brands. Whether your goal is to develop a new generation of packaging designs, meet ever-changing regulatory challenges or to enhance the sustainability of a packaging product, you can count on Sherwin-Williams to deliver the solutions you need.

**SHERWIN-WILLIAMS.**

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