

oxystar®



**RECYCLABLE
BARRIER MATERIAL**
FIRST OF ITS KIND



**DIRECT FOOD
CONTACT**
FDA COMPLIANT



**INCREASED
SHELF LIFE**
BLOCKS OXYGEN

The number one challenge when creating custom food packaging is keeping food fresher longer.

Direct oxygen contact with perishable food can create an environment that accelerates spoilage. This creates a big problem for food manufacturers. But simply keeping oxygen out of food packages is not the only concern. That's why Placon created an innovative solution to a long-standing problem.

Introducing our recyclable PET barrier material, OxyStar.

WHY OXYSTAR STANDS OUT:

- Most barrier solutions today carry a #7 recycling symbol, which is a catchall for non-recyclable plastics.
- OxyStar is different—it has a #1 recycle symbol, meaning it can go back into the PET recycling stream.
- Environmental benefits: Less waste in landfills, contributing to a more sustainable future.

HOW DOES OXYSTAR WORK?

- OxyStar utilizes a dual defense: PET material combined with an oxygen scavenging agent.
- PET naturally has a low oxygen transmission rate (OTR), slowing oxygen from entering the package.
- The oxygen scavenger binds oxygen molecules in the sidewall of the package, keeping food fresh and extending shelf life.

PLACON®
Simply Better Packaging®

OXYSTAR HAS SUPERIOR PERFORMANCE WITH CHALLENGING FOODS

OxyStar barrier PET is an excellent solution for extending shelf life for foods requiring an aggressive oxygen barrier. **Food such as:**



Meat



Cheese



Food high in vitamin C



Food high in fats (nuts, oils)



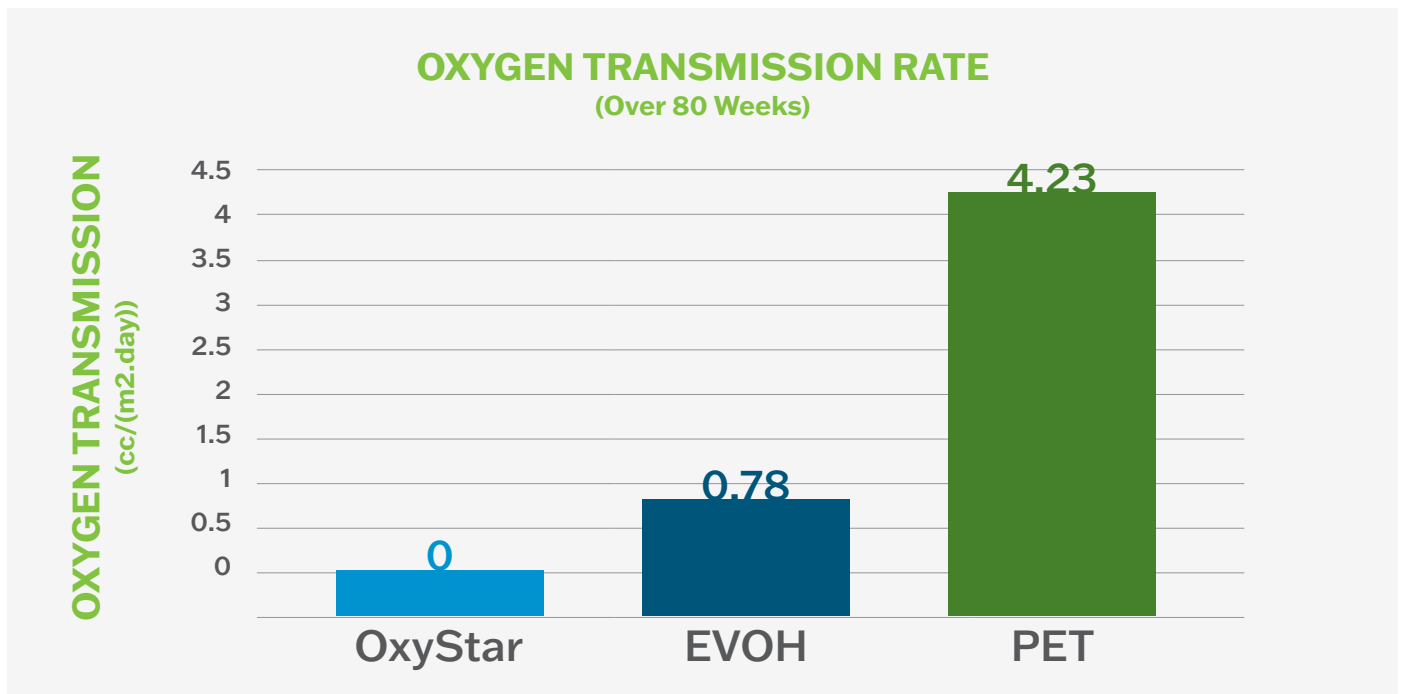
OxyStar actively scavenges ingressing oxygen.

Direct Food Contact Applications

- FDA compliant for direct food contact
- All food types for conditions of use C-H
(Food Types & Conditions of Use for Food Contact Substances, Tables 1 and 2 www.fda.gov)
- Fully film-sealable, making OxyStar ideal for food processor applications

OXYGEN BARRIER OPTIONS AND PERFORMANCE

Low OTR packaging materials are a solution to the oxygen ingress problem that Placon can provide. The chart below compares the OTR for PET, OxyStar and EVOH. OxyStar performs better than EVOH and remains near zero throughout the shelf life of the OxyStar active agent.



*Customers should test and validate OxyStar in their specific applications. Material should be used within 6 months of shipment.