

Oxygen Transmission Rate Testers

One product family. Three test-cell configurations.



PW-OTR01

Single test cell

PW-OTR02

Dual test cell

PW-OTR03

Triple test cell

**Precision at Every Stage.
Confidence in Every Test.**

Understand the barrier.

Oxygen transmission testing characterises how oxygen passes through a packaging material. It supports material comparison, packaging development and quality control.



Films, laminates and coated materials

Flat specimens prepared from flexible packaging layers connect material evaluation with real packaging applications.



Food packaging



Pharmaceutical packaging

Configuration & test methods



PW-OTR01

1 test cell



PW-OTR02

2 test cells



PW-OTR03

3 test cells

Interface	7-inch touchscreen PLC/HMI on all models
Sample format	Flat films, laminates and coated flexible materials
Test area	50 cm ² per cell; approximately Ø79.8 mm aperture
Enclosure finish	RAL 7016 / RAL 7035
Reported quantity	Oxygen transmission rate (OTR)
Typical OTR unit	cm ³ /(m ² ·day), with test conditions stated

Standards / Applicable Test Methods

ASTM D3985-24

Oxygen transmission through plastic film and sheeting using a coulometric sensor.

ASTM F1927-20

Oxygen transmission at specified temperature and controlled relative humidity using a coulometric detector.

ISO 15105-2:2025

Gas transmission through plastic films and sheeting by the equal-pressure method.

OTR is expressed per unit area and time. Test temperature, relative humidity and specimen preparation must be stated with the result.

From material to application.



Prepare a flat, representative specimen, mount it in the test cell and condition it at the selected test temperature and humidity. Evaluate oxygen transmission under steady-state conditions to compare packaging material structures.

Discuss your testing requirements.

PROWHITE Teknoloji A.Ş.

www.prowhite.com.tr

info@prowhite.com.tr

+90 212 671 05 03

WhatsApp: +90 533 458 07 64

Gökevler Mahallesi, Adnan Kahveci Bulvarı, 563. Sokak,
No: 9-A, Esenyurt / İstanbul, Türkiye