

# PERMATRAN-C® 4/41 AND 4/41T

Modular Carbon Dioxide Transmission  
Rate Test System for Barrier Films, Packages and Bottles



## **Model C 4/41** CO2 transmission for bottles and barrier films

- Ideal for bottle testing with excellent correlation to Zahn-Nagel shelf life studies
- Time to result is much faster than existing methods
- 1 to 8,000 cc/(m<sup>2</sup> · day)  
0.065 to 515 cc/(100 in<sup>2</sup> · day)  
0.005 to 40 cc/pkg · day



## **Model C 4/41T** High transmission CO2 for Fresh-Cut produce industry

- Test high transmission films and packages used in the fresh produce industry
- Time to result is much faster than existing methods
- 4,000 to 155,000 cc/(m<sup>2</sup> · day)  
258 to 10,000 cc/(100 in<sup>2</sup> · day)  
20 to 775 cc/pkg · day

- Optional closure permeation test cell
- Computer controlled
- Real-world temperatures
- Two test cells per module, expandable to 20 cells

- Optional Environmental Chamber for controlled temperature package testing
- Temperature Ranges:  
Films - 5C to 50C  
Packages - 5C to 50C w/Optional EC  
10C to 40C w/ Optional PEC

# Technical Specifications

## PERMATRAN-C 4/41

Barrier Quality Samples

	cc/(m <sup>2</sup> · day)*	cc/(100 in <sup>2</sup> · day)	cc/(pkg · day)
Standard	1 to 8,000	0.065 to 515	0.005 to 40
Masked	10 to 80,000	0.65 to 5,150	N/A

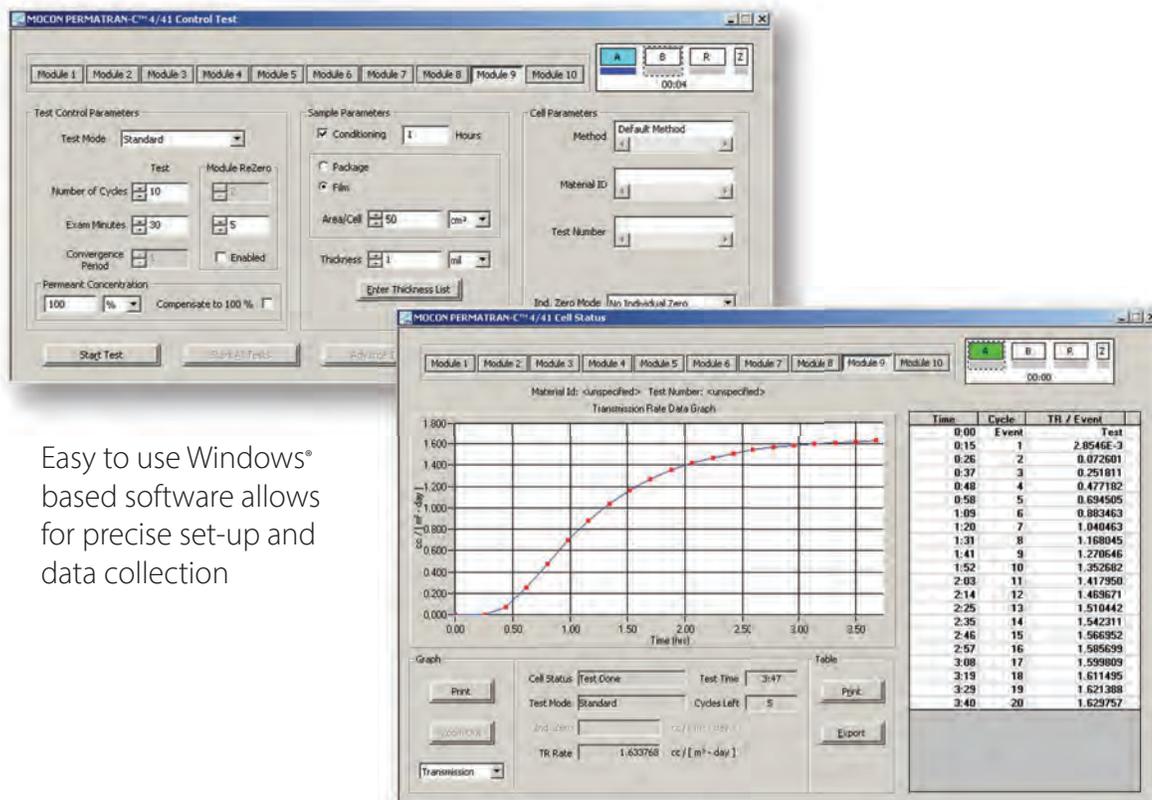
## PERMATRAN-C 4/41T

High Transmitter Samples

	cc/(m <sup>2</sup> · day)*	cc/(100 in <sup>2</sup> · day)	cc/(pkg · day)
Standard	4000 to 155,000	258 to 10,000	20 to 775
Masked	40,000 to 1,550,000	2,580 to 100,000	N/A

\* for barrier materials only (non-porous)

- Temperature Range: Films - (Standard) 5C to 50C  
 Packages - (Standard) Room ambient  
 (Optional) 10C to 40C
- Test Sample Size: Films 4.25" x 4.25" (10.8 cm x 10.8 cm)  
 Packages up to 3 liters practical
- Option: Bottle cap permeation test cell
- Electrical Requirements: Voltage - 100, 120, 220 or 240 VAC ± 10%  
 Frequency - 50 or 60 Hz  
 Power consumption - 500 VA maximum



Easy to use Windows® based software allows for precise set-up and data collection

Package testing under select environments



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