

## Barrier testing service

- Permeation characteristics of each element tested.
- Wide range of test temperature.
- Gases, vapors and liquid.



### Examples of test sample



Food containers



Tubes and hoses



Films



Gaskets and sealings



Bottles

### Example data

**No. 1**  
 Date 2002/4/30 08:55 Permeation Area 15.2 cm<sup>2</sup>  
 Cell No. 2 Correction Factor 2.81  
 Film PE (L) Test Time Blank 5.00min 10.00min 20.00min  
 Test Temp. 35.0°C Data No. ab119020 ab119021 ab119022 ab119023  
 Thickness 56 μm

	Δp	Permeation Amount μl			Permeability
	cmHg	Test 1	Test 2	Test 3	cc·cm/cm <sup>2</sup> ·sec·cmHg
O <sub>2</sub>	22.6	3.902e+000	7.829e+000	1.560e+001	5.963e-010
N <sub>2</sub>	90.4	5.389e+000	1.080e+001	2.160e+001	2.060e-010

**No. 5**  
 Date 1997/11/18 20:08 Permeation Area 15.2 cm<sup>2</sup>  
 Cell No. 2 Correction Factor 2.81  
 Film PET13 Test Time Blank 1.00min 2.00min 4.00min  
 Test Temp. 40°C Data No. H2322301 H2322304 H2322307 H2322310  
 Water Bath Temp. 90.0% 40.0°C  
 Thickness 13 μm

	Δp	Permeation Amount mg (μl)			H <sub>2</sub> O Perm. Amount
成分	cmHg	Test 1	Test 2	Test 3	g/m <sup>2</sup> ·24hr·atm
H <sub>2</sub> O	86	1.143e-002	2.276e-002	4.452e-002	2.661e+001

**No. 8**  
 Date Permeation Area 15.2 cm<sup>2</sup>  
 Cell No. Correction Factor 3.16  
 Film EVOH-EF-XL Test Time Blank 5.00min 10.00min  
 Test Temp. 40°C Data No.  
 Thickness 15 μm

	Δp	Permeation Amount mg		Permeation Amount
	cmHg	Test 1	Test 2	g/m <sup>2</sup> ·24hr·atm
Iso-Octane	34.2	2.802e-007	4.352e-007	3.311e-004
Ethanol	7.6	7.635e-007	1.471e-006	4.487e-003
Toluene	34.2	2.190e-006	3.297e-006	2.553e-003

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