

# Lyssy L80-6000

**Water Vapor Permeability Tester**  
Easy and reliable testing for water vapor permeability



The L80-6000, the latest generation of the proven L80 series, which have been used around the world for decades because it is:

- The most cost - effective solution available
- Simple to use
- Low maintenance
- Extremely fast
- Wide measurement range
- The best reproduction of real-life conditions

## Features & Benefits

- A 5.7 inch, color, touchscreen display - improved user experience
- Modern communication interfaces and network connection
- Front door opens to allow access for maintenance and to add water to the chamber reservoir
- Intelligent software detects when the desiccant needs replacement
- Easy set-up of test parameters and sample data
- Automatic temperature control
- Motorized sample clamping - improved test consistency
- Automated test parameters - eliminates differences due to operator input
- Easy to use test samples holders - no grease needed for sealing
- No printing required - all results and date stored on computer

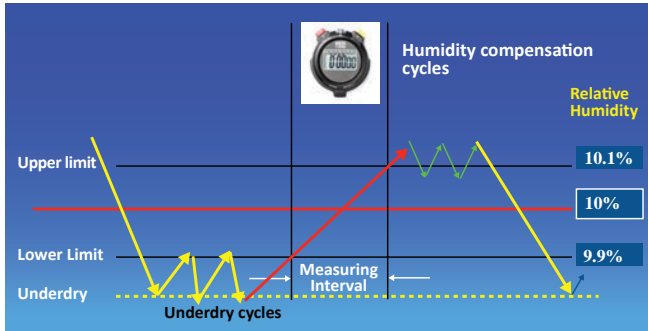
## Sample cards

The preparation of a sample for the L80-6000 is accomplished in minutes. No grease or glue is required for a tight seal around the sample in the chamber. The test sample is affixed to the self-adhesive sample card, which is inserted into the L80-6000 test chamber. The Lyssy L80-6000 is able to measure high permeability materials using special sample reduction cards that decrease the surface area of the sample.

This reduction of the surface prevents the system from getting saturated, and therefore it becomes possible to dry down the upper chamber of the instrument and obtain a permeability measurement.



## Example of measuring cycle L80-6000



## Technical Specifications

### General description

Dimensions	480H X 400W x 470D
Weight	
Measuring range	0.03 - 22,000 g/m <sup>2</sup> /day as standard
Sensor life	
Voltage	230 VAC or 110/100 VAC
Conforms to these standards	

### Measuring

Measuring temp range	5-70°C. Practical range 30-70°C, with built-in temperature control. For measuring below 30° C external cooling water thermostat is required
Humidity range	10% or 35% RH in measuring chamber (equivalent to 90% or 65% RH differential over the sample)

### Sample Requirements

Measuring area	Low permeability samples - 50cm <sup>2</sup> High permeability samples - 2.4cm <sup>2</sup>
Sample thickness	Up to 12mm
Minimum sample size	10 x 10cm

### User Interface

Keyboard	Alpha numeric
Display	Full Color

### Operational Environment

Ambient temperature	5 - 40°C
Ambient humidity	10 - 90% RH(non-condensing)

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## Fast, accurate and Versatile

The L80-6000 is very fast at measuring, and the more permeable the sample the shorter the measuring time. In addition to its short testing times and broad testing range, the L80-6000 has a high degree of accuracy.

A series of tests by users have proven that the standard deviation of the Lyssy instruments is lower than ±5%, and the reproducibility tolerance is as low as 1.5% (depending on the material).

The high accuracy and extremely broad testing range of 0.03-22,000 g/m<sup>2</sup>/day are achieved by using a very sensitive and reliable humidity sensor, which is located directly in the measuring chamber. This test method is the best reproduction of real-life conditions, since no carrier gas or extractive measuring technique is used.

The humidity sensor is very stable, regardless of the humidity range in which it is operated. As a result, the L80-6000 alternates easily and quickly between low and high permeability measurements - typically, the change can be done in one hour or less using the function called "Simulated Test standard". The tester automatically detects the attainment of equilibrium when the sample has stabilized.

### Measuring temperature

The water vapor permeability of many products is strongly temperature dependent. That is why the L80-6000 can be used at precisely the required measuring temperature.

All content and specifications subject to change.

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