

### Pin Hole Tester

Also Known As : Light Box / Light Table

Table Top, Compact Design.

Consist of a Self-Illuminated Chamber and a blackout hood.

Special Feature :

- Glass top over a high intensity diffused light source (LED)
- Blackout Hood to prevent room light from falling on the Test Sample's top surface.
- Digital Counter (Manually operated)

Power : 230 Volts AC.



### Elite Model (EXR) : (Regular Size)

- With Blackout Hood to prevent room ambient light to fall on the Foil Surface. (So you can test even with the room lights ON)
- Illuminated area : 10 x 10 Inches Approx.
- with integrated, Digital Event Counter and manual Count switch.
  - with LCD Display
  - with an inbuilt battery. (The expected life span of the battery is almost 5 years.)
- With extra high intensity, high diffusion LED light source under the glass.
- With ON/OFF switch.

**IQQQ Documentation Set (for Pharmaceutical companies only)**

**Available at Extra Cost**

### Procedure of operation :

- Flip open the blackout hood.
- Place the film / foil on the glass top.
- Flip down the hinged hood.
- Press the RESET switch for the Digital Event Counter.
- Switch on the Power button. The Hi-Intensity lamps inside the chamber will glow.
- Count the number of visible pinholes (You will see light coming out of the pinholes)
- For every pinhole, press the COUNT button once. This will increase the counts on the Digital Counter.
- Circle the pinholes if further analysis is required.
- Slide the film again and repeat the pinhole counting for length equivalent to 1 square meter or 1550 square inch. E.g. if the foil width is 6 inches, the length of testing should be 258.34 inches. If the foil width is 8 inches, the length should be 193.75.
  - You can also test up to you own desired length / area format.
  - Report as No. of Pin Holes per Square Meter area.
  - Some people also report the Pin Holes as Numbers per Meter running length.



### Typical Pinhole count found in Aluminum Foils :

Foil Thickness ( $\mu\text{m}$ )	Typical Pinhole / Sq Mtr.
11	60
14	40
18	30
20	20
> 25	0

Source : Indian Standards :15392-2003



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Manufactured by :  
**Test Techno Consultants**  
K-1, 23/2, G.I.D.C. Ranoli,  
Vadodara - 390350. India.  
Phone : + 91 - 8181 025 025  
Email : [info@packtest.com](mailto:info@packtest.com)  
Website : [www.PackTest.com](http://www.PackTest.com)

Marketed in India by :  
**Rohit Instruments & Testing Services**  
K-1, 601/2&3, G.I.D.C. Ranoli,  
Vadodara - 390350. India.  
Phone : + 91 - 98 0 98 69001  
Email : [info@packtest.com](mailto:info@packtest.com)  
Website : [www.PackTest.com](http://www.PackTest.com)