



PICMA Tack Tester – P3

Model 80-29-01-0001

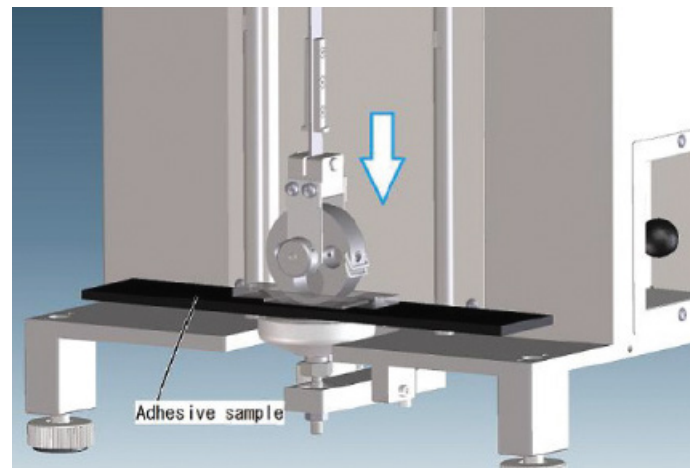
The PICMA Tack Tester measures the adhesion or tack of rubber materials, adhesive tapes, sealants and other materials. Tack is defined as the force required to separate two sheet materials which are compressed together for a specified time. There are three primary factors which influence the behavior of tack. These are contact pressure, temperature and contact time. Studies indicate contact time has the most significant impact in controlling tack of rubber. The PICMA Tack Tester allows complete control of force and time. The unit also has an optional temperature sensor to verify temperature before testing.

Features:

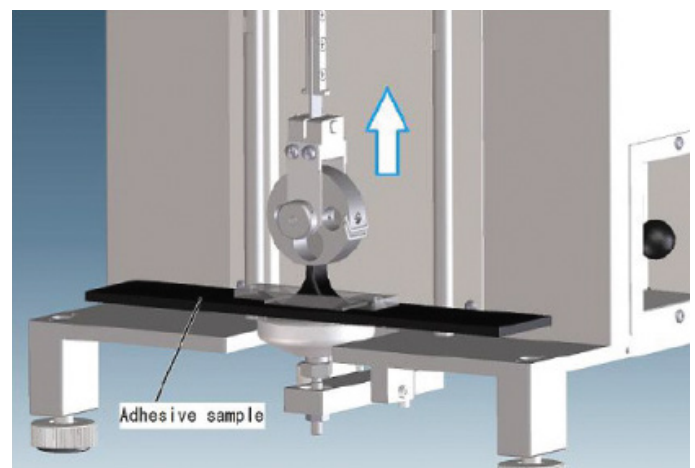
- Load cell-based measurement system.
Maximum capacity: 100N
- Adhesion measuring range: 0.0 and 30.0 N
- Resolution: 0.1 N
- Sample holder/indenter weight set: Dead weight, 2–5 N weights included (1N weight increments)
- Optional weights available from 2-20N
- Sample holder/indenter down speed (2-two selectable speeds)
- Sample holder/indenter up speed (8-eight selectable speeds)
- Optional sample surface temperature



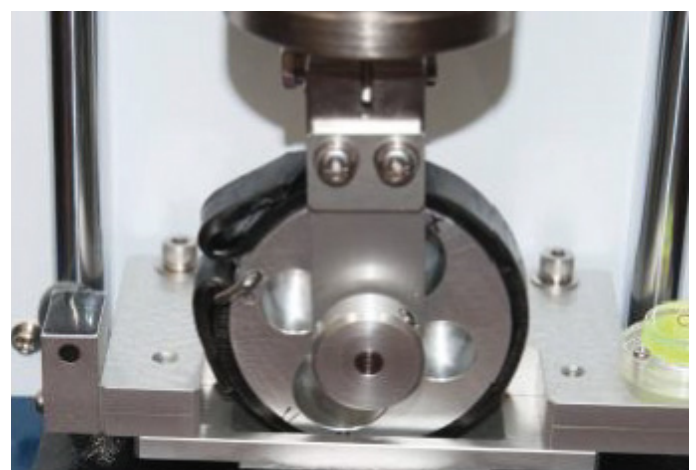
Measurement Principle:



Indenter contacts sample



Indenter lifts and removes from sample



Indenter lifts and removes from sample

Specifications	Description
Measuring method	Load cell capacity: 100N / Measuring resolution: 0.1N
Measurement range	0-30N
Sample holder/indenter weights	Deadweight, 2-5N as standard, (Pressure can be set by the unit of 1N within the range of 2-5N)
Test frequency (N)	1, 3, 5 cycles
Sample pressuring time	0.0-99.0 seconds (0.1 second)
Indenter up/down speed	Up: speed- select from the following three ranges Wide speed range: 5, 10, 50, 100, 500, 1000, 1500, 3000mm/min Low speed range: 5, 7.5, 10, 15, 20, 25, 30, 50mm/min (equivalent to P-1) High speed range: 100, 500, 700, 1000, 1250, 1500, 2000, 3000mm/min (equivalent to P-2 model) Down: speed- 2 choices HIGH and LOW
Drive unit	Servomotor
Indenter wheel rotation	Manual
Sample setting	Lever arm, no need to incline the tester
Display	7 seg LED (optional high sensitivity load cell displays to 0.01 digit)
Test conditions	Indenter up speed: 8 choices/down speed: 2 choices Sample pressure dwell time: 0.0-99.9 sec Test frequency: choices from 1, 3, 5 times Test result: N= from 1-5 times, median and average value Sample holder pressuring performance: Deadweight, set 1N weight man.
Power source	AC100-240V, 100V/5A
Weight	App. 18 kg
Dimension (LxWxH)	App. 330 x 300 x 510mm
Use environment	Room temperature: 5-40 degree C, RH: 30-90% (during tests) *No condensation The tester should be free from the impact of
Optional	Description
Measuring range with a high intensity load cell	0.0-30N, measuring resolution: 0.01N Checker box included, zero or full resistance for calibration. Capacity: 100N
Temperature measuring performance	Optional sample surface temperature measurement Thermopile radiant temperature sensor (Shown in tester photo, front pg)* Temp. measuring range: 5-40 degree C, measuring resolution: 1 degree C
Dead weights	Max. 20N (between 2-20N adjustable by the unit of 1N)
Printer	TEST No., Test results N=1-5, Average and Medium value Temperature by the unit of 1-degree C, sample pressing time duration Indenter up/down speed

*Temperature depends on sample emissivity.

This tester is designed for rubber emissivity: $\epsilon = 0.95$.

The temperature of other materials with great emissivity difference is not displayed correctly.

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Contact Details

web. www.industrialphysics.com

email. info@industrialphysics.com