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No.235 PICMA Tack Tester Model P-3



Specimen mounting wheel



Lever arm to hold sample on the holder

■ APPLICATION

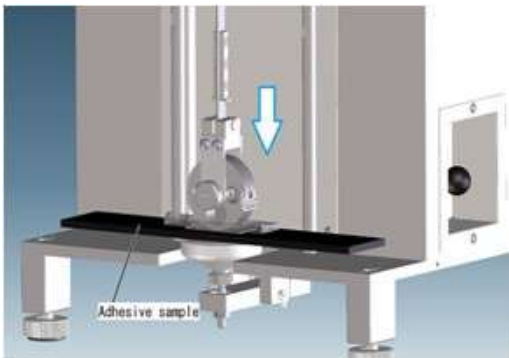
The PICMA Tack Tester measures tacking strength between unvulcanized rubbers and between unvulcanized rubber and other materials. Tacking strength of other adhesive materials can also be measured. It is a desktop-type machine suitable for R&D testing and provides condition settings of higher precision in a wider range. Although analog push-pull gauges were used on the old generation model P-1 and P-2, a digital load cell is used on the model P-3. The optional high-precision load cell enables the machine to have more resolution for strength measurement.

■ FEATURES

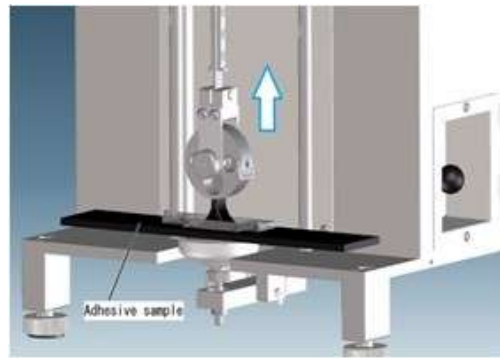
- Motorized specimen mounting wheel lowers at constant speed
(Can be set 1000mm/min. or 60mm/min.)
- Automatic motor stop when a sticking load is applied
- Sticking time can be set between 0 to 99.9 seconds
- After the preset sticking time, the motorized specimen mounting wheel automatically raises
- The pull apart speed can be selected in 8 steps
- With the lever implementation, the machine does not need to be tilted when samples are set.
- The high-precision load cell provides more resolution for tackiness measurement (Optional)
- It is possible to measure the temperature near the specimen surface, which influences the tackiness of specimens (Optional)
- Measurements can be sent to the printer (Optional)

■ MEASUREMENT PRINCIPLE

Sticking



Separating



■ EXAMPLE OF MINI PRINTER OUTPUT (OPTION)

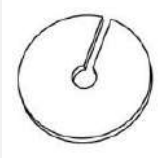

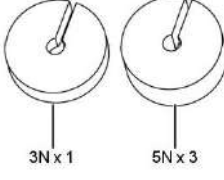
TESTNo.	DOWN_SP	UP_SP	TIMER	WEIGHT		
001	HIGH	3000	99.9	20		
N=1 N/TE	N=2 N/TE	N=3 N/TE	N=4 N/TE	N=5 N/TE	AVE N/TE	MED N/TE
30.60/20	30.00/19	30.00/18	30.01/19	30.00/20	30.12/19	30.01/19
TESTNo.	DOWN_SP	UP_SP	TIMER	WEIGHT		
002	HIGH	3000	03.0	5		
N=1 N/TE	N=2 N/TE	N=3 N/TE	N=4 N/TE	N=5 N/TE	AVE N/TE	MED N/TE
01.80/21	06.88/21	03.59/21			04.09/21	03.59/21
TESTNo.	DOWN_SP	UP_SP	TIMER	WEIGHT		
003	HIGH	3000	03.0	5		
N=1 N/TE	N=2 N/TE	N=3 N/TE	N=4 N/TE	N=5 N/TE	AVE N/TE	MED N/TE
2.51/22	Err/21	03.59/21			Err/21	Err/21
•						
•						
•						
TESTNo.	DOWN_SP	UP_SP	TIMER	WEIGHT		
255	HIGH	3000	99.9	20		
N=1 N/TE	N=2 N/TE	N=3 N/TE	N=4 N/TE	N=5 N/TE	AVE N/TE	MED N/TE
30.60/20	30.00/19	30.00/18	30.01/19	30.00/20	30.00/20	30.00/20

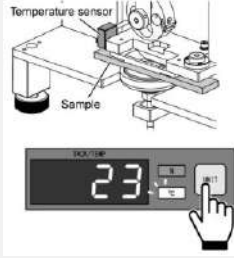
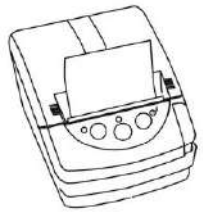
■ SPECIFICATIONS

Model	P-3
Measurement method	Load cell (Capacity: 100N)
Measuring load range	0.0 to 30.0N (Resolution: 0.1N)
Sticking load (Dead weight)	2 to 5N (Standard) Max. 20N (Optional)
Number of times to perform measurement (N)	1, 3, 5 (Selectable)
Sticking time	0.0 to 99.9 sec. (0.1 sec. steps)
Specimen mounting wheel Down speed	Can be set "LOW" or "HIGH" <ul style="list-style-type: none"> ■ LOW (60mm/min.) ■ HIGH (1000mm/min.)
Specimen mounting wheel UP speed (Separating speed)	To be selected upon order <ul style="list-style-type: none"> ■ Wide speed: 5, 10, 50, 100, 500, 1000, 1500, 3000mm/min. ■ Low speed : 5, 7.5, 10, 15, 20, 25, 30, 50mm/min. (≒P-1) ■ High speed: 100, 500, 700, 1000, 1250, 1500, 2000, 3000mm/min. (≒P-2)
Specimen mounting wheel drive method	Servo motor
Tackiness indicator	7seg LED
Interface	RS-232 x 1
Power requirement	Single-phase, AC100 to 240V, 50Hz or 60Hz, 0.5kVA
Dimensions	W300 x D330 x H510mm
Weight	Approx. 18kg

■ STANDARD FUNCTIONS / ACCESSORIES & OPTIONS

● Standard ○ Option

	Name	Model (Part No.)	Photo	P-3
1	Weight, 1N	----		●(x1)
2	Weight, 2N	----		●(x1)
3	Additional weights option <ul style="list-style-type: none"> ■ 3N x 1 ■ 5N x 3 	WE-20	 3N x 1 5N x 3	○

4	High resolution load cell option <ul style="list-style-type: none"> ■ Capacity: 100N ■ Measuring load range: 0.00 to 30.00N ■ Resolution: 0.01N 	HSRC-1		○
5	Specimen surface temperature measurement option <ul style="list-style-type: none"> ■ Thermopile radiation thermometry sensor (Implemented in the body) ■ Measurement range: 5 to 40°C (Resolution: 1°C) <p><i>Note: This sensor is adjusted to the radiation rate of rubber (≒ 0.95). Temperature of materials with a different radiation rate cannot be correctly measured.</i></p>	ST-2		○
6	Mini printer	PO-1		○
7	Data transfer software for spreadsheet <p><i>Note: Spread sheet application is not included</i></p>	EX	----	○
8	Power cord, Type B (For Japan)	----	----	● (x1)
9	Power cord, Type B (For USA etc.)	AC-U	----	○
10	Power cord, Type F (CEE7/4, For Germany etc.)	AC-C	----	○
11	Power cord, Type F (For South Korea)	AC-K	----	○
12	Power cord, Type G (BS1363, (For UK etc.)	AC-B	----	○
13	Power cord, Type I (For China)	AC-G	----	○

Specifications are subject to change without notice.



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