

236 | Tackiness Checker Model HTC-1



Measurement unit
(Aluminum R ring, model AL-R1)

■ APPLICATION

The Tackiness Checker, HTC-1, is a convenient, easy-to-use instrument which was developed to allow an on-site testing of the tackiness of rubber components. The instrument may also be used to test the tackiness of adhesive tapes, depending on the application.

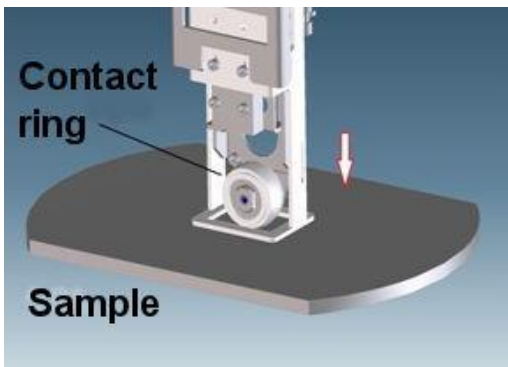
In the molding process of tires and belts, where components including rubber and reinforcing materials are bonded in multiple layers and vulcanized, it is very important to check those components' tackiness before the forming process is completed. The Tackiness Checker HTC-1 provides a simple and portable method for an accurate, on-site testing.

■ FEATURES

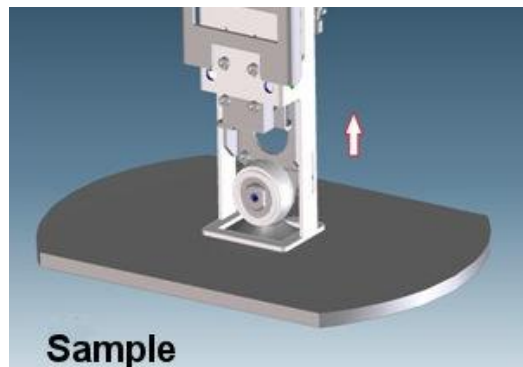
- Portability for its compact and light-weight unit (1.3kg)
- Measuring the tackiness of samples at production sites
- Conducting a test by simply pressing down the measurement unit of the instrument on samples
- Rotating the contact ring by each test with the ratchet mechanism
- Cleaning the contact ring on the cleaning mode easily
- Measuring sample surface temperature (option)

■ MEASUREMENT PRINCIPLE

Sticking



Separating



SPECIFICATIONS

Model	HTC-1
Tackiness measuring method	Load cell method, Max 20N , resolution 0.1N
Press force	Standard: 10N (Selectable between 5 to 12N)
Press time	3 sec / 6 sec (two choices)
Number of measuring times	1 / 3 / 5 times (three choices)
Contact ring moving speed (Down and up)	Approx. 2.3mm/sec.
Contact ring	Aluminum R ring, Model: AL-R1, Point contact
Measuring times per a test	Approximately 7 seconds when pressing time is 3 seconds
Contact ring drive	Brushless DC motor
Contact ring rotation	Auto rotation function
Minimum sample size	50 x 50mm
Test condition (input)	● Sample name (4 digits) ● Test results display (median or average if multiple) ● Number of times (1, 3, 5) ● Press time (3 sec or 6 sec)
Calendar function	Date, Time (yyyy/mm/dd hh:mm), auto refresh until 2099
Battery	Lithium ion battery 7.4V, 2000mA
Power consumption	Standby: 550mW, Motor drive: 800mW
Dimensions	W118 x D72 x H222mm
Net weight	Approx. 1.3kg

■ ACCESSORIES/SPARE PARTS & OPTIONAL FEATURES

●Standard ○Option

Name	Model (Part No.)	Photo	HTC-1
Aluminum R / curvature surface ring	AL-R1		●x1
Aluminum F / flat surface ring <i>Features larger contact area than aluminum R ring for increased tackiness value</i>	AL-F1		○
Flat-faced indenter	AL-M1		○
Built-in thermopile radiated temperature sensor ■ Measurement range: 5 to 40°C (Resolution: 1°C) <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>	ST-1		○
Carrying case <i>For storage of main instrument and attachments</i>	KS-1		○

Specifications are subject to change without notice.



TOYO SEIKI SEISAKU-SHO, LTD.

5-15-4, Takinogawa, Kita-ku, Tokyo 114-8557, Japan

Tel: +81-3-3916-8183 Fax: +81-3-3916-8173

www.toyoseiki.co.jp

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