

KASON-MN300A Mooney Viscosity Tester



Picture Just for reference

1. Equipment overview:

The KASON-MN300A Mooney Viscosity Tester uses rotational testing to determine the fluidity of raw and unvulcanized rubber.

The flowability of rubber is closely related to the rubber processing process, from the plasticator to the end of vulcanization. Mooney viscosity is a key technical indicator for measuring this performance. It is an indispensable instrument for the reclaimed rubber, rubber, and wire and cable industries.

2. Standard:

GB 9869-1997 Rubber compounds - Determination of vulcanization characteristics (Oscillating disk vulcanimeter method)

GB/T 1232.1-2000 Unvulcanized rubber - Determination of Mooney viscosity

GB/T 1233-92 Rubber compounds - Determination of initial vulcanization characteristics (Mooney viscometer method)

ISO 3417-1977 Rubber - Determination of vulcanization characteristics of rubber compounds using an oscillating disk vulcanimeter

HG/T 3121-1998 Rubber - Specifications for oscillating disk vulcanimeter

HG/T 3242 Rubber - Specifications for Mooney viscometers

GB/T 16584-1996 Rubber - Determination of vulcanization properties using a rotorless vulcanimeter

ISO 6502:1991(E) Rubber - Determination of vulcanization properties using a rotorless vulcanimeter

ASTM D5289-93(a) Standard test methods for rubber properties - Determination of vulcanized properties using a rotorless vulcanimeter

ISO 289-1 (1994) Unvulcanized rubber - Determination of vulcanized properties using a shear disk viscometer

3. Application Industries:

Widely used in metrology and quality inspection; rubber research; automobile manufacturing; wire and cable; medical devices; civil aviation; universities and colleges; research laboratories; technical supervision departments; petrochemical industry; tire production; and other industries.

4. Features:

- 1) Covers test standards and specifications such as GB, ASTM, DIN, JIS, and BS.
- 2) Test Data: Allows users to set all test data once and reuse it.
- 3) Autoscaling of graphs and curves ensures optimal scale display. Graphics can be dynamically switched in real time during testing.
- 4) The temperature control circuit, consisting of a measurement and control module, a platinum resistor, and a heater, automatically tracks changes in grid and ambient temperature, automatically adjusting PID parameters to achieve temperature control.
- 5) A computer control and interface board are used for data acquisition, storage, processing, and printing of test results and curves.
- 6) The software platform is compatible with Windows 98/Me/NT/XP, and the visual graphical window interface makes digital processing more accurate and operation simpler, more flexible, and more convenient.

6. Technical parameters:

Model	KASON-MN300A
Temperature measurement range	0--200°C
Temperature measurement accuracy	≤±0.5°C
Control accuracy	≤±0.5°C
Temperature resolution	0.1°C
Torque range	0-100 Mooney value
Calibration accuracy	100 ± 0.5 Mooney value
Rotor speed	2 ± 0.02 rpm
Measurement time	0-200 min, 1 second resolution
Ambient temperature	0-35°C
Relative humidity	<80%
Test pressure	11.5 kN ± 0.5 kN
Gas distribution	0.45-0.6 MPA
Power supply	220V AC, 1 kVA
Machine dimensions	Approximately 660 × 570 × 1300 mm
Machine weight	Approximately 280 kg

7. Configuration

Name	Quantity	Brand
Servo motor	1 Suit	Delta
Mooney motherboard	1 Set	HST
PT100 sensor	1 Set	From UK
Cylinder	1 Set	FESTO
Computer	1 Set	HP
Printer	1 Set	HP
Filter	1 Set	Delta
Exhaust fan	1 Set	NEDFON
Leakage current protector	1 Set	Schneider
Fuse	1 Set	Pengsen

Name	Quantity	Brand
Sealed mold cavity	Up and Down	HST
Acrylic protective cover	1 Set	HST
Water separator	1 Set	China
Solenoid valve	1 Set	Schneider
Heating element	1 Set	National Standard Wire
Wires	Several	HST
Controller	1 Set	HST
Temperature sensor	1 Set	Omron

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