

# No.275 Mooney Viscometer

## Model **AM-4**



### ■ APPLICATION

The **Mooney Viscometer model AM-4** conducts mooney viscosity test and mooney scorch test of un-vulcanized rubber according to ISO 289 (JIS K6300-1).

### ■ FEATURES


#### Accuracy and calibration control

- High temperature accuracy,  $\pm 0.3^{\circ}\text{C}$  compensation with various error correction functions.
- Easy correction of temperature sensor error and temperature amplifier error, etc. by touch panel.
- Mooney value can be automatically calibrated by internal weight.

#### Improved functions and operation

- Testing conditions and good/bad judgment standards can be registered.
- Full automatic operation except for reading out registered items and loading/unloading sample.
- Test results, data curves, good/bad judgment and average value, etc. can be arbitrarily selected and printed out by compact printer (option).
- Results of past test can be accessed.
- Heater timer function to save end and start times.
- Fast maintenance by main unit check function.

## ■ SPECIFICATIONS

Model	AM-4
Die type	V-groove die (Square groove die is option)
Rotor type	1 piece of L type rotor is included as standard <b><u>(Note: S type rotor is option)</u></b>  Left: L type rotor (Standard) Right: S type rotor (Option)
Mooney viscosity	Max. 200M
Test temperature	Max. 200°C
Compression system	Pneumatic
Heating system	Electrical
Rotor rotation speed	2 ± 0.02 rpm
Drive motor	Speed control motor
Torque detector	Strain gauge type load cell
Mooney time range	0 to 480 minutes (t1, t2, t3, t4, t5...5 points)
Scorch time range	0.0 to 99.9M (S1, S2, S3, S4, S5...5 points)
Preheat time	0 to 99 minutes 59 seconds
Post-heating time	0 to 99 minutes 59 seconds
Torque calibration	Auto span calibration by actual weight
Interface	RS232C
Operation panel	5" LCD touch-screen Function: <ul style="list-style-type: none"> <li>● Test conditions</li> <li>● Torque calibration</li> <li>● Machine check</li> <li>● Data history search</li> </ul> etc.
Languages	English, Japanese
Power requirement	Single-phase, AC200 to 230V, 50Hz or 60Hz, 2.4kVA
Compressed air requirement	0.4MPa or more
Dimensions	W430 x D600 x H1190mm
Weight	Approx. 155kg
Related standards	ISO 289 JIS K 6300-1 ASTM D1646

## ■ STANDARD ACCESSORIES & OPTIONS

● Standard    ○ Option

	Name	Model	Part No.	AM-4
1	V-groove die	-----	-----	●
2	Square groove die	-----	-----	○
3	L (Large) type rotor	-----	2110059	●
4	S (Small) type rotor	-----	2110058	○
5	Preheat chamber for spare rotor	M-RPH	-----	○
6	Data processing unit <ul style="list-style-type: none"> <li>● Personal computer</li> <li>● LCD monitor</li> <li>● Ink-jet printer</li> <li>● Data processing software</li> </ul>	CON-L	-----	○
7	Small printer <ul style="list-style-type: none"> <li>● Print system: Thermal dot matrix</li> <li>● Recording paper width: 80mm</li> <li>● Print item: <ol style="list-style-type: none"> <li>1) Date</li> <li>2) Sample name</li> <li>3) Die temperature at test end</li> <li>4) Minimum torque (Vm)</li> <li>5) ML torque (5 points)</li> <li>6) tsx scorch time (2 points)</li> <li>7) Judgment (OK, NG)</li> </ol> </li> </ul>	M-P1	-----	○
8	Stress relaxation measurement	M-SR2	-----	○
9	Table for main unit (Large) Dimensions: W1200 x D750 x H740mm Load capacity: 300kg	DAI-L	-----	○
10	Table for main unit (Small) Dimensions: W900 x D750 x H740mm Load capacity: 300kg	DAI-S	-----	○
11	Air filter set	AC-4	-----	○

