

ROTORLESS RHEOMETER TYPE RLR-4

APPLICATION

Rotorless Rheometer Model RLR-4 easily measures curing characteristics of rubber at high accuracy according to JIS K6300.

Model RLR-4 is a new and modified version using the touch panel liquid crystal monitor and improving on the oscillation frequency and the amplitude of oscillation.

The oscillation frequency can be set in the 50CPM to 150CPM range and the amplitude of oscillation can be set in the $\pm 0.05^\circ$ to $\pm 3.00^\circ$ range.



Rotorless Rheometer + Auto Sample Load/Unload Unit
RLR-4 + ROB-R4



Data Processor
CON-L

FEATURES

1.Operation Panel

The operation is handy according to the adoption of the touch panel type liquid crystal monitor. Moreover, the curing curve etc. can be confirmed in real time in the monitor, and the overlapping display up to five curves is also possible.

2.Torque automatic calibration

The automatic calibration can be performed with a built-in actual weight by one-touch on the operation panel.

3.Test movement

Amplitude of oscillation can be set arbitrarily in 0.01° within the range of $\pm 0.05^\circ$ to $\pm 3.00^\circ$. Oscillation frequency can be set arbitrarily in 1CPM within the range of 50CPM to 150CPM.

4.Data graph can be printed out by the mini printer(option).

SPECIFICATIONS

MAIN UNIT

Sample chamber die configuration	: Rotor, contactless, sealed type
Pressing system	: Air cylinder system(oilless type)
Heating system	: Electric system
Temp. setting range	: RT+20 ~ 230 , accuracy ± 0.3 , resolution 0.1
Sample drive cycle	: 50 ~ 150CPM(changeable in every 1CPM.)
Amplitude of oscillation	: $\pm 0.05 \sim \pm 3.00^\circ$ (changeable in every 0.01° .)
Torque range	: 100dN·m auto range, minimum 0.01dN·m (max. 200dN·m) 100kgf·cm auto range, minimum 0.01kgf·cm (max. 200kgf·cm)
Torque calibration	: Auto span function by built-in weight
Torque auto zero	: Auto zero function before starting test
Test time setting	: 3 ~ 960 minutes in 10 steps
Safety device	: Overheat protector Overload protector Prevention from being caught between the heating platens by the wind cover
Communication	: RS-232C
Software(standard accessory)	: Data graph program, Continuous graph function, Print out function for graph and characteristic value Excel conversion program (Personal computer is not included.)
Dimensions	: Approx.430(W)x600(D)x1120(H)mm, weight abt.145kg
Electric source	: AC200V, 1-P, 12A
Air source	: Minimum 0.35MPa
Testing method	: JIS K6300-2

DATA PROCESSOR(CON-L) Option

Computer	: Windows
Display	: Color liquid crystal display
Printer	: Ink jet color
Rack	: Approx.600(W)x700(D)x1350(H)mm
Weight	: Approx.30kg

AUTO SAMPLE LOAD/UNLOAD UNIT(ROB-R4)...Option

Robot	: Pin type robot
Sample table	: Conveyer type Number of sample max.84 pcs.
Alarm	: Red lamp and buzzer
Weight	: Approx.20kg
Electric source	: AC200V, 1-P, 0.6A

OTHER OPTIONS

: Mini printer, tan measuring device,
Form pressure measuring device, Table,
Temperature-programmed device, Air filter

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