



No.2312-I

Maron mechanical stability tester

As latex is subject to various mechanical impacts while it goes through processes such as transport, mixing, agitation and coating, it needs to have enough stability to withstand those impacts. For example, latex receives great shearing stress in making and application of latex paint as it is mixed with pigment paste, agitated and applied on paper as latex paint. It also receives shearing force in paper converting in the processes of adding pigments and coating, and in fiber processing, in the drawing process. When given great kinetic energy through mechanical impacts, latex particles contact and fuse with each other to form aggregates, overcoming inter-particle potential energy barriers. Emergence of these aggregates in fiber processing fails the expected function of latex. Resistance of latex against mechanical impacts is referred to as mechanical stability, which is one important characteristic of latex. This machine is a mechanical stability tester for synthetic rubber latex that measures the mass of the coagulum content generated in specimen latex. When testing, it applies shearing force on specimen latex with its rotor revolving under a certain load.

Main shaft rotation speed: 1,000 + 20rpm (standard)
500, 1,500, 2,000rpm (optional)

Load: platform scale 500N, minimum increment 5N

Time: 30-minute timer

Accessory: polyethylene liner

Referential standard: JIS K-6392-1995

Power source: 100/110VAC 50/60Hz 10 A

Outer dimensions: 480 x 590 x 890mm

Instrument weight: 79kg

No.2312-II

Maron mechanical stability tester
(with a stepless speed change device)

This tester incorporates a servo motor that enables stepless speed change, allowing measurement under a broad range of conditions. A digital display system is used for its platform scale, enabling various conditions to be digitized.

Main shaft rotation speed: 0 to 2000rpm (optional 0 to 3000rpm)

Load: digital platform scale 0 to 500N, minimum increment 0.2N (standard)

Time: 30-minute timer

Accessory: polyethylene liner

Referential standards: JIS K-6392-1995

Servo motor: 200/220V 750W

Power source: single-phase 200/220VAC 50/60Hz 3 A

Outer dimensions: main unit 480 x 590 x 890mm,
control box 250 x 200 x 350mm

Instrument weight: 90kg

Optional: constant temperature water tank

With motor of 1kW, three-phase 200/220VAC.

