

KRK KUMAGAI RIKI KOGYO

Maron Mechanical Stability Tester

Model No. 2312-I

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-minutes timer
Accessory	polyethylene liner
Referential Standard	JIS K-6392-1995
Power Source	100/110VAC 50/60Hz 10A
Outer Dimensions	480×590×890mm
Instrument Weight	79kg



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