

KRK High Shear Viscosimeter

Model No. 2204

Along with the progress in coating technology, especially with diversification of coating types, high speed processing and upgrading of quality, coating material needs to meet severe requirements in flowability, leveling and stability to various outer factors. Consequently, flowability tests for coating materials in the range of high speeds are indispensable to monitor problems at the high-speed blade coater and roll coater. With the KRK high shearing viscosimeter, it is possible to faithfully reproduce the operation of a practical machine in the laboratory, and to grasp behaviors at speeds of 1 x 105/second, encompassing a wide range of elemental research, such as solving troubles and development of new coating materials. This machine is designed to test not only the materials in the category of high speed and high shearing, as well as those of low speed and high viscosity, with a special function (optional) of low revolutions, 1/10 speed of the standard high speed (a range of 0 to 220rpm) which enables to test various kinds of materials in speed and shearing. The measurement ranges up to 4.000mPa-s liquids. This machine features an electronically controlled stepless speed change, allowing linear deceleration and acceleration up to the maximum speed of 8,800rpm. The machine body is installed on a stable base, with almost no vibrations. This is a viscosimeter having an inner rotating cylinder, with a bob and a cup of high precision. Viscosity torque is detected by a strain gauge, and graphically displayed by the PO via an amplifier. The system with a computer can calculate viscosity coefficient and shearing speed that are continually changing to display plastic and leveling index.

Specifications

Specimen:

Maximum Shearing Speed: Maximum Viscosity: Rotation Speeds: 1st Stage: 2nd Stage: 3rd Stage: 4th Stage: Cup:

Torque Range:

Strain Gauge Protector:

Torque Detecting Procedure:

Heating and Cooling: Power Source: Outer Dimensions:

Instrument Weight:

Newtonian liquid, Non-Newtonian liquid (plasticity, pseudo plasticity, thixotropy, dilatancy) 1.8 x 105/second-1 2,000mPa-s (cps) (4,000 option)

low speed 0 to 220rpm, high speed 0 to 2,200rpm low speed 0 to 440rpm, high speed 0 to 4,400rpm low speed 0 to 660rpm, high speed 0 to 6,600rpm low speed 0 to 880rpm, high speed 0 to 8.800rpm inner diameter 40mm, effective depth 80.5mm, Material: stainless steel (SUS304) shifting in four stages 5, 10, 20, 50 x 104 Dyn-cm/cm 10, 20, 40, 100 x 104 (optional) overload prevention with a rotation angle limiter. full scaling with a check box and calibration weight with jacket (optional) single-phase 200/220VAC 50/60Hz 10 A Viscosimeter 500 x 500 x 860mm Control panel 600 x 610 x 920mm Viscosimeter 120kg Control panel 85kg



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