



Mooney Line Viscometer

The new Mooney-Line Viscometer from Prescott Instruments is the perfect choice for all professionals involved in the Laboratory testing of polymers, efficiently producing accurate data on a variety of elastomeric compounds.

Fundamental to all Mooney-Line Viscometers is the rotor and die assembly. A sample of test material is placed above and below the rotor and the platens then closed under pressure. The temperature of the dies and the sample contained within are accurately maintained throughout the test by means of microprocessor based PID control system.

The rotor rotates at a constant speed at two revolutions per minute and by means of a precise transducer system located below the die assembly, the torque exerted on the rotor head is measured and recorded within the system data files.

The Mooney-Line Viscometer is supplied with everything you need to perform quick and efficient elastomeric compound testing, including:

- Fully Automatic Calibration (an advanced function which can be carried out as and when required)
- Personal Computer
- Comprehensive Mooney-Line Software
- Printer and all peripheral cables and connectors



Advanced and Standard Tests

An important feature of the Mooney-Line Viscometer is its ability to be programmed for measuring the *STRESS RELAXATION* index of material samples. This feature enables the user to measure the decay of viscosity by firmly locking the Rotor after the programmed test time has elapsed. In addition to this the equipment meets the requirements of *ASTM D1646* and can perform industry standard tests including *ML(1+X)* viscosity tests, *SCORCH* testing and *DELTA MOONEY* tests on a wide range of compounds prior to manufacturing processes.

Prescott Instruments Mooney-Line Viscometer is operated through an intuitive and easy to use Windows based software system and the package includes:

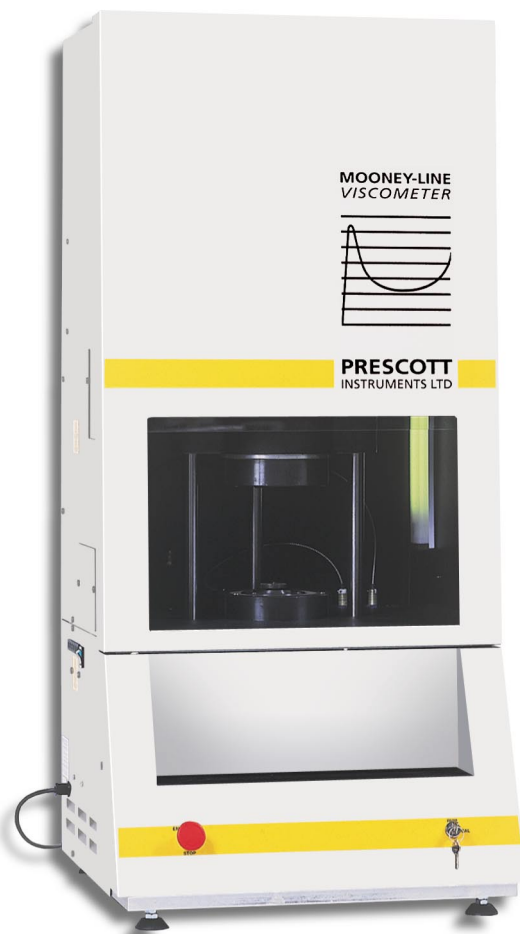
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|--------------------|--|
| • DATABASE | Storage of compound test specifications. |
| • ACQUIRE | Displaying real time test data. |
| • REPORT GENERATOR | Output of graphs and data on screen or printer. |
| • PASS/FAIL | Test data can be pass/fail based on historical or pre-determined criteria. |



For better control of your process, test data can be automatically exported to other external quality packages to generate control charts of your choice. As with all Prescott Instruments products Mooney-Line is fully networkable to our full range of operating platforms, or indeed to other industry standard equipment.

A multi-discipline approach provides solutions offering precise control for industry.

TECHNICAL SPECIFICATIONS	
Design Spec.	ISO 289
Electrical	Single Phase, 220/240V 60Hz, 110V 50 Hz
Pneumatics	Filtered air 4.2 Kg/cm (60 psi)
Die Configuration	Standard, large or small rotor
Rotation Speed	2 rpm
Temp Control	Digital PID
Temperature Range	Room temp to 200 deg C.
Units of Measurement	Torque in Mooney units, temperature in Fahrenheit or degrees Centigrade. Time Min/Sec, Min/Decimal, Seconds
Types of test:	Viscosity, MI (1+x) Scorch Combined scorch and viscosity Stress relaxation Stress relaxation Mould release test All tests can be with or without preheat.
Data format	All data stored in Access database with full export functionality.
Software	Windows compatible, operating on Windows 98 V2, NT, 2000 or XP.
These options are available	Small & Large rotor Volumetric sample cutter



It is advisable that samples are prepared with an automatic volumetric cutter which is available from Prescott Instruments Ltd. Please see our brochure for full specification.

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