



The **Mooneyline Viscometer Variable Speed (VS)** is complete with an adjustable rotor that can deliver variable speeds from 0.1 to 20 revolutions per minute (RPM). Therefore facilitating extra functionality and producing accurate data on a variety of elastomeric compounds, making this an impeccable choice for polymer specialists.

Fundamental is the rotor and die assembly, with the test material placed above and below the rotor, held in place by pressure controlled platens. 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 speed of rotation can be varied from 0.1 to 20 RPM enhancing the range of data that can be calculated during the test. This is a particularly useful function for the testing of tyre compounds and polymers.

Our Labline software controls and operates the instrument, allowing all testing capabilities of a standard Mooneyline Viscometer, as well as advanced tests at varied speeds and temperatures in accordance of ASTM D1646. Labline allows an unlimited amount of test data points and comes complete with a calibration module.

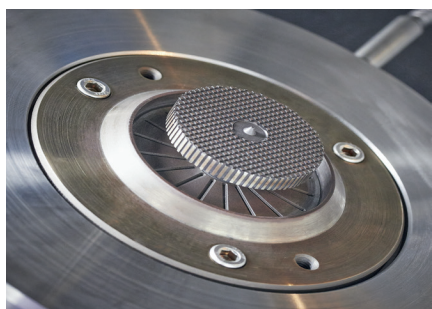
The Mooneyline Viscometer Variable Speed can perform a wide range of advanced tests to regulate the viscosity of polymer samples at varied speeds and temperatures.

Complete with:

- » Personal Computer
- » Comprehensive Labline Software
- » All peripheral cables and connectors

Test capabilities include:

- » Mooney Viscosity
- » Mooney Scorch
- » Stress Relaxation
- » Area Under The Curve
- » Delta Mooney
- » Linear Speed Variation



Mooneyline Viscometer Variable Speed

Technical Specification:

Standards	ISO No. 289 / ASTM D1646
Die Configuration	Standard
Rotor	Large or Small
Rotation Speed	Varied 0.1 to 20 RPM
Calibration	Fully Automatic
Temperature Range	Ambient to 225°C
Units of Measurement	Torque in Mooney units. Temperature in Fahrenheit or degrees Centigrade. Time, min/sec, min/decimal, seconds.
Types of Test	Real time display of: - Mooney Torque - Temperature of upper and lower dies - Calculation of Viscosity (MI1+4) - Scorch, Delta Mooney, Stress Relaxation index
Temperature Control	3 Term PID – Control Accuracy $\pm 0.03^{\circ}\text{C}$
Electrical	Single Phase 220/240V 50Hz 110V 60Hz 350 VA
Pneumatics	Filtered Air, Min: 0.41 Mpa 60 psi 4.14 Bar 4.2 kg/cm
Weight	205 kg
Dimensions	575 mm x 570 mm x 1280 mm (W x D x H)
PC Specification	Pentium processor, networkable
Optional Extras	Mooneyline Volumetric Sample Cutter



Quality sample preparation

It is strongly recommended that your samples are prepared with our **Mooneyline Volumetric Sample Cutter** which is available from Prescott Instruments Ltd. Please see our brochure for more information.



Prescott
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