



Prescott
instruments

Mooneyline Viscometer



A Trusted Name in Material Testing

- Prescott Instruments is a **U.K. company** with **over 30 years' experience** in material testing.
- We manufacture all instruments **onsite in the U.K. under ISO 9001** and our in-house laboratory team perform all **instrument calibrations under ISO 17025**.
- Our **Mooneyline Viscometer** is the **perfect choice** for modern laboratories at all stages of the rubber production process.
- Its **precision, reliability and durability** make it an indispensable instrument for laboratory professionals worldwide.

Built to Last

- **Durability:** The high-stiffness steel frame is **robust enough to withstand the demands** of a busy production environment with the high precision performance to match.
- **Reliability:** Expertly-crafted construction provides **stability and reliability** even when testing the hardest of materials.
- **Unique:** Our bespoke **high-end electronics** ensure the highest data sampling rates available.

Repeatability and Connectivity

- Our **Mooneyline Viscometer** is **simple and easy to use** and is operated through an **intuitive Windows-based** software system.
- **Simplicity of design** means you can replace components **easily and affordably**.
- Equipped with **advanced programming capabilities** for assessing the **Stress Relaxation** index of material samples.
- Utilising a microprocessor-based PID control system, we ensure **precise temperature regulation** of the dies and the sample.
- Utilising a **highly accurate transducer system** situated beneath the die assembly, the **torque applied to the rotor head** is accurately measured and documented in the system's data files.
- All our instruments are accredited to **ASTM D1646** and can perform **international standard tests**.



Mooneyline Viscometer

Technical Specification

Standards	ISO No. 289 / ASTM D1646
Die Configuration	Standard
Rotor	Large or Small
Rotation Speed	2 RPM (0.21 Radians/Sec)
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 ± 0.03 °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	180 kg
Dimensions	575 mm x 570 mm x 1280 mm (W x D x H)
PC Specification	Windows PC
Optional Extras	Variable Speed Rotor (0.1 to 20 RPM) Mooneyline Volumetric Sample Cutter

Test Points	
Initial	MX
Minimum (ML)	TX
Maximum (MH)	TY
Final	X
Time Gate	Delta Mooney A
Cure Index	Delta Mooney B
Slope (a)	Stress Relaxation Percentage (SR%)
Correlation (r)	Stress Relaxation Time (SRsec)
Intercept (k)	SR Area (A@%s)

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