



Prescott
instruments

Mooneyline Viscometer Smart



A Trusted Name in Material Testing

- Prescott Instruments Ltd. 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**.
- This **Mooneyline Viscometer Smart** 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 & Connectivity

- The **Mooneyline Viscometer Smart** is a sleek and **compact version** of our full sized Mooneyline Viscometer.
- This instrument is supplied with everything you need to perform **reliable and efficient elastomeric compound testing**.
- Equipped with **advanced programming capabilities** for assessing the **Stress Relaxation** index of material samples.
- **Simplicity of design** means you can replace components **easily and affordably**.
- The **Mooneyline Viscometer Smart** meets the requirements of ASTM D1646 and can perform **industry standard tests**.
- This instrument supports **ODBC Database Connections Microsoft Access®**, **Microsoft SQL Server**, **IBM DB2**, and is operated through an intuitive and easy to use Windows-based software system.



Mooneyline Viscometer Smart

Technical Specification

Standards	ISO No. 289 / ASTM D1646
Die Configuration	Standard
Rotor	Large or small
Rotation Speed	2 RPM (0.21 Radians/Sec)
Temperature Range	Ambient to 225 °C
Temperature Control	3 term PID, control accuracy +/- 0.03 °C
Calibration	Weights
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
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 (Ml1+4) - Scorch
Data Format	All data stored in accessible format allowing easy export to all other packages: SQL, Access
PC Specification	Pentium processor, networkable
Weight	65 kg
Dimensions	300 mm x 300 mm x 870 mm (W x D x H)

Optional Extras Mooneyline Volumetric Sample Cutter

Test Points	
Initial	MX
Minimum (ML)	TX
Maximum (MH)	TY
Final	X
Time Gate Mooney A	Delta
Cure Index Mooney B	Delta
Slope (a) (r)	Correlation

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