

## Mooney Viscometer

### Model: UM-2050

#### Specifications



- a. The model UM-2050 consists of one main testing unit and one subunit of control and data analysis equipped with one IBM compatible PC, colour monitor, CD-Rom, hardisk, and one printer.
- b. Standards: ASTM D1646, JIS K6300
- c. Temperature:
  1. working Range: From room temperature to 200°C
  2. Accuracy: Within  $\pm 0.3^{\circ}\text{C}$
  3. Display Resolution:  $0.1^{\circ}\text{C}$
- d. Moving Die Frequency: 2Rpm.
- e. Mooney Range: 100M and 200M
- f. Mooney Unit:  $M(1M=0.735 \text{ 1bf-in})$
- g. Maximum Load: 250M
- h. Mooney Display Resolution: 0.01
- i. Rotor Type: L size and S size.
- j. Electricity Supply: AC220+10%, 50/60 $\pm$ 3Hz, 7AM, single phase; or discretionary at user needs.
- k. Pneumatic Pressure: 7kg/cm<sup>2</sup> or 103Psi (Air-compressor is to be user own equipment)
- l. Apparatus Measurements:
 

Apparatus Measurements:	
Net	Main Unit: 66(L)x57(W)x124(H) cm Sub Unit: 70(L)x67(W)x130(H) cm
Packing	85(L)x79(W)x151(H) cm
- m. Weights:
 

Weights:	
Net	Main Unit: 220 Kgs Sub Unit: 45 Kgs
Gross	Main Unit: 260 Kgs Sub Unit: 100 Kgs
- n. One L and S size rotors, 5Ps of fuse, 10Ps of rubber seal, 2Ps of 2Kg-calibrator, one copper pry bar, One copper brush, 500Ps of printer paper sheet.

#### Features

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- a. Provides curves and values of mooney viscosity, scorch time, and stress relaxation test.
- b. Provides plot of Log Mooney Units versus Log Time from a Stress Relaxation Test.
- c. Provides curves of softening rate and scorch rate.
- d. Auto-mendable by one touch on designated function key in case of software default.
- e. Auto-zero -point calibration before each testing started

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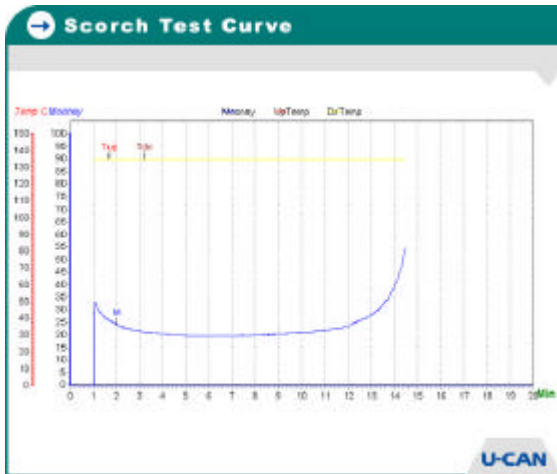
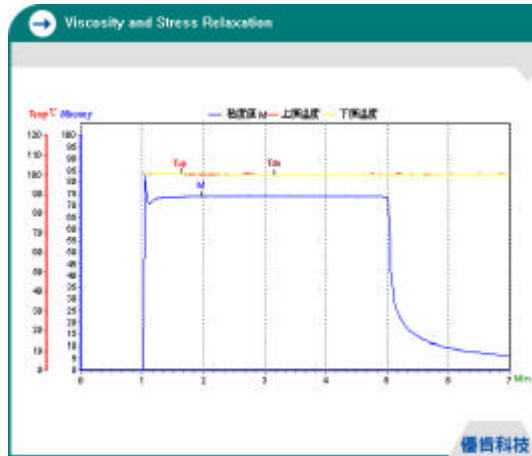
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a measurable difference...



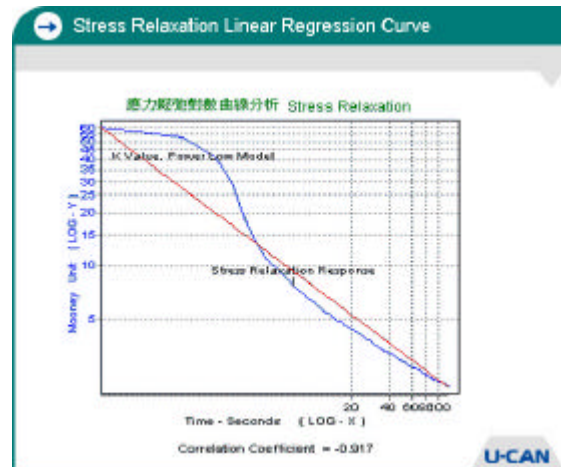
# Mooney Viscometer

\* Example \*  
Viscosity and Stress Relaxation Curve



\* Example \*  
Scorch Test Curve

\* Example \*  
Stress Relaxation Linear Regression Curve



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