



BRIEFING OF U-CAN :

- Certificated manufacturer of ISO 9001 : 2008 and CE Conformity .
- U-CAN DYNATEX INC. established for 28 years specializing in Rheometer, Mooney Viscometer, and other rubber testing equipment manufacturing.
- More than 20 kinds of product are manufactured in Taiwan headquarter.
- 18 branch offices and agents rendering worldwide services.
- Pursuing innovation and excellence, continuing R & D and improvement, U-CAN has had customers spreading over many industrialized countries in Europe, U.S.A., and Japan, etc.
- U-CAN DYNATEX INC is the only one of authorized rubber testing equipment manufacturer for setting up factory in Scientific Park in Taiwan.

Choose U-CAN ,Make you can

STANDARD FUNCTIONS

Viscosity Test
a. Mooney initial (MI) b. Minimum viscosity (ML) c. Maximum viscosity (MF) d. Testing temperature curve
Scorch Test
a. Scorch time at T5 and T35, or at T3 and T18, or others. b. Scorch vs. time curve c. Viscosity value at T5 and T35 ; or T3 and T18, or others. d. Melting index e. Scorch index f. Testing temperature curve
Stress Relaxation Test
a. Relaxation time (Tx) b. % of viscosity decay (Xy%) c. The value of the exponent a, the constant k, the correlation coefficient r, and the area A, of the test. d. Plot of Log Mooney Unit sversus Log Time.

OPTIONAL: We also provide frequency conversion type Mooney Viscometer.

TEST REPORT

Test Report of Mooney Viscosity

Data/Time	No.	MI	ML	MF	t80	X100	ML1+4	CHK
20120426\13:10	7	40.08	0.58	27.05	2.1(S)	2.4(%)	0.58	0

Test Report of Mooney Scorch

Data/Time	No.	TS5	TS35	TS35-5	MS5	MS35	MS35-5	ML	MF	CHK
20120426\13:10	18	3:56	4:57	1:01	19.68	49.68	30.00	14.68	49.81	0

ROTOR FOR MOONEY VISCOMETER

Rotor for Mooney Viscometer (Big)



Rotor for Mooney Viscometer (Small)

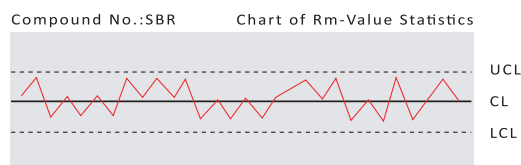
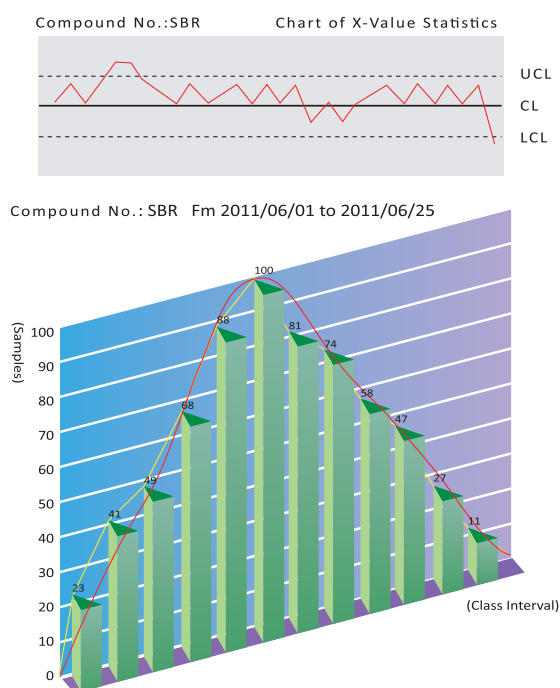


OPTIONAL FUNCTIONS

- Providing frequency conversion type Mooney Viscometer to test the viscosity of particular rubber.

- Statistical Process Control Software (SPC) :

- a. Data Storage: ML and MF, or any other two mooney values.
- b. Scorch time at T5 and T35, T3 and T18, or any other scorch time or relaxation time and its values.
- c. Providing with statistical analysis of the above stored data by X-Rm Chart, $\bar{X}$ -R Chart, Normal Distribution Chart, and Histogram Chart.
- d. Evaluation and classification of the testing in grade A or B or off categories.



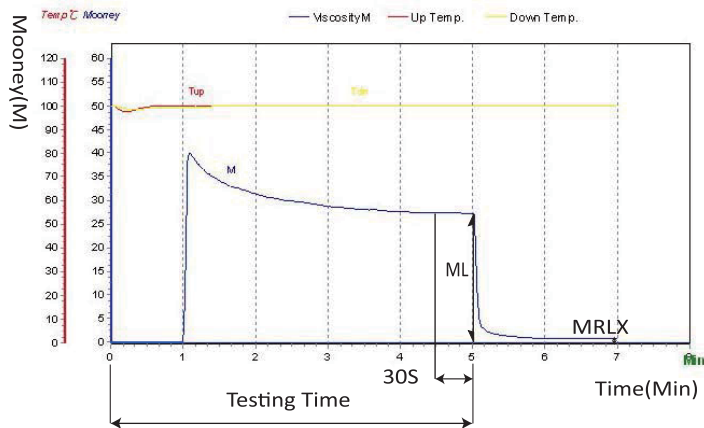
Item	Value
Number of Sampling	667
Average value of examination	50.48
Standard Deviation	1.02
UCL	53.54
LCL	47.42
Skewness	1.95
Kurtosis	5.72
Process Capability	91.11
Index of Process ability	0.82

FEATURES

- a. Auto-zeroed before each testing.
- b. Auto-calibration of viscosity.
- c. Not exceeding 2 min and 50 seconds when heating up from room temperature to the equilibrium of $100^{\circ}\text{C} \pm 0.3^{\circ}\text{C}$.
- d. During testing, die chamber temperature will be redeemed to the tolerance of $\pm 0.3^{\circ}\text{C}$ within one minute from die closure.

CURVES ILLUSTRATION

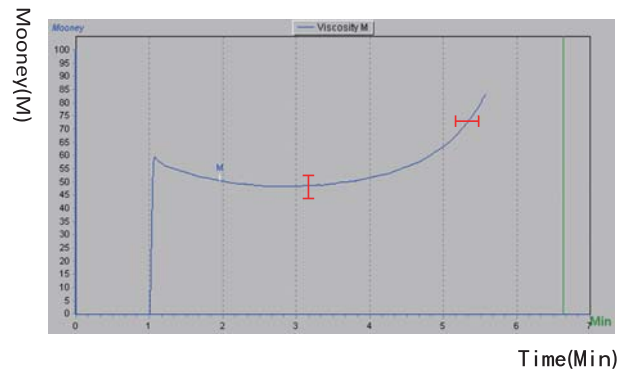
Mooney Viscosity Test :



ML:ML1+4 testing, the lowest value in the last 30 seconds.

MRLX: Relaxation value.

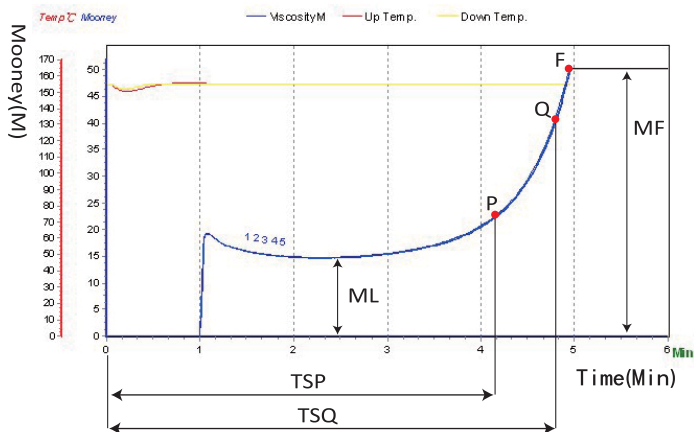
Double control by viscosity and scorch time :



"I" : Controlling viscosity.

"H" : Controlling scorch time.

Scorch Test :



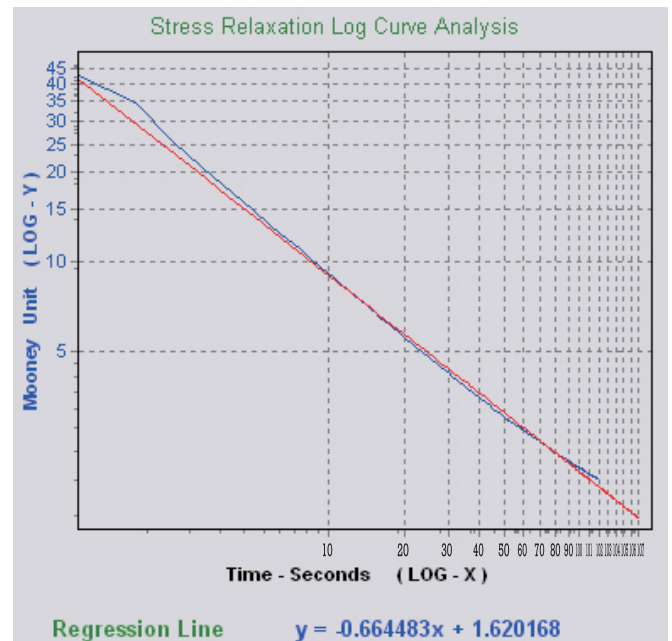
ML:The lowest value in the testing.

MF:The maximum viscosity in the testing.

TSP:The 1st scorch time at point "P".

TSQ:The 2nd scorch time at point "Q".

Relaxation value – Time Curves



SPECIFICATIONS

A. Manufacturing Standards : in compliance with ASTM D1646, ISO 289, and JIS K6300

B. The standard model UM-2050 consists of one main testing unit and one subunit of control and data analysis equipped with one pc , one monitor, and one jet printer .

C. Temperature :

a. Working range : From room temperature to 200℃

b. Accuracy : Within $\pm 0.3^{\circ}\text{C}$

c. Display Resolution : 0.1°C

D. Moving Die Frequency : 2rpm (or frequency conversion type upon request).

E. Mooney Unit : M(1M=0.735 1bf-in)

F. Mooney Display Resolution : 0.01M

G. Mooney Range : 0 ~ 200M (or higher upon request)

H. Maximum Load : 250M (or higher upon request in advance)

I. Scorch Time : 0-99.9M

J. Rotor type : L size and S size.

K. Pneumatic Pressure : 65Psi or $4.5\text{kg}/\text{cm}^2$ or 0.45Mpa
(The air-compressor to be the user's own equipment)

L. Electricity Supply : AC220V $\pm 10\%$, 50/60Hz $\pm 3\text{Hz}$, 7A, Single Phase; or discretionary at user needs.

M. Apparatus Measurements :

	Machine (mm)	Packing (mm)
Main Unit :	700(L) $\times$ 590(W) $\times$ 1240(H)	880(L) $\times$ 880(W) $\times$ 1540(H)
Sub Unit :	600(L) $\times$ 500(W) $\times$ 640(H)	820(L) $\times$ 700(W) $\times$ 800(H)

N. Weights :

	Net weight (kg)	Gross weight (kg)
Main Unit :	250	330
Sub Unit :	40	90

O. Accessories : large rotor $\times$ 1, small rotor $\times$ 1, die cutter $\times$ 2, 2kg-calibrator $\times$ 2, copper bar $\times$ 1, copper brush $\times$ 1, fuse $\times$ 5, rubber seal $\times$ 10, calibration certificate $\times$ 2, operation manual $\times$ 1.

MAIN PRODUCTS OF U-CAN

Items	Model
1 Rotorless Rheometer	UR-2010SD
2 Foam Pressure Rheometer	UR-2030SD
3 Rheometer — (on-line tester)	UR-6001
4 Optimum Cure Analysis Systems(OCAS)	
5 Rubber Process Analyzer (RPA)	UR-2020
6 Mooney Viscometer	UM-2050
7 Tensile Strength Tester Series	UT-2080 Series
8 Ozone Test Chamber	UA-2074 Series
9 Dynamic Testing Systems	UD-3600 Series
10 Dynamic Fatigue Tester	UD-3800 Series
11 Filler Dispersion Tester	FDG-4020
12 Carbon Black Dispersion Tester	UD-3500
13 Flex-Cracking Tester	UD-3602
14 Fatigue Tester of Tyre Compound Rubber	UD-3603
15 Cord Adhesion Tester	UD-3604
16 Goodrich Flexometer	UD-3801
17 Tyre Stiffness Testing Systems	UP-2092 Series
18 Tyre Section Cutting Machine	UA-2087
19 Rebound Resilience Elasticity Tester	UA-2207
20 Electronic Densimeter	MD-300S Series
21 Other rubber testing equipments	

PT. TESTINDO

HEAD OFFICE

Jl. Radin Inten II No. 61B Duren Sawit, Jakarta 13440

Phone: (021) 2956 3045 Fax: (021) 2956 3052

E-mail: sales@testindo.com

Website: www.testindo.com

Customer Service:

0815 614 1954 (hunting)

Specifications and other contents mentioned above
may be changed subject to the improvement without
advace notice.

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