

Viscosity

Mooney Viscometer Mk III

The Mooney Viscometer Mk III measures and records the viscosity of natural, synthetic or compounded rubber.

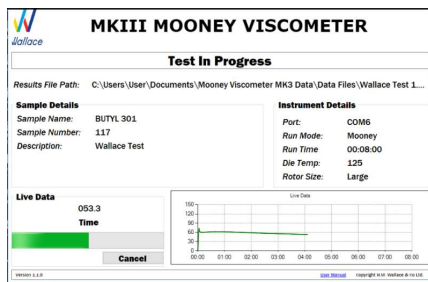
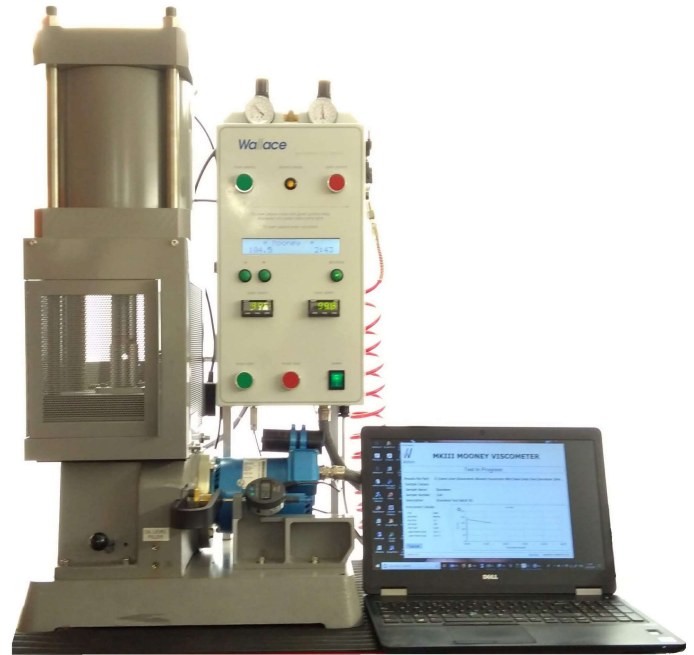
Features

- Simple and robust mechanical system producing reliable results
- Precise digital temperature control
- All digital versions come PC enabled as standard
- Analogue model available on request

Principle of Operation

Conforming to international standards, the Mk III is a shearing-disc viscometer in which the rubber sample is compressed pneumatically in a cylindrical chamber formed by cavities in 2 opposing dies.

The viscosity is determined by measuring the torque required to turn the rotor inside the chamber, which is heated to a set temperature. As the rotor shears the sample, a torque reaction is transmitted through a worm shaft, which deflects a torsion beam. A dial gauge (analogue or digital) measures the beam's displacement. With its simple mechanical drive system and well-proven design, the Mk III has been in use for many years and has become the workhorse for many laboratories.



Our Software

- Allows you to follow test results live on screen
- Save all results for future reference
- Compare results on screen
- Print results with one click

Accessories

Standard Accessories:

- Large rotor
- Small rotor
- Tool set

Optional Accessories:

- V3/Cal calibration kit
- S6/15 Mooney sample cutter
- Software
- Printer

Sample Name	Sample #	Description	Run Mode	Run Time	Result	Die Temp	Rotor Size	Time	Date	File Path	
BUTYL 375	101	NSI 29 18	Mooney	00:08:00	RE50.1	125	Large	25:08	18/1/18	C:\Users\VA...	
BUTYL 375	102	NSI 29 18	Mooney	00:08:00	950.7	125	Large	08:41	19/1/18	C:\Users\VA...	
BUTYL 301	103	BUTYL 301	Mooney	00:08:00	95.6	125	Large	09:22	25/1/18	C:\Users\VA...	
BUTYL 301	104	Pre Release -	Mooney	00:08:00	948.4	125	Large	23:59	25/1/18	C:\Users\VA...	
BUTYL 301	105	Pre Release -	Mooney	00:08:00	948.6	125	Large	23:11	25/1/18	C:\Users\VA...	
BUTYL 301	106	Pre Release -	Mooney	00:08:00	948.8	125	Large	23:20	25/1/18	C:\Users\VA...	
BUTYL 301	107	Pre Release -	Mooney	00:08:00	948.7	125	Large	23:43	25/1/18	C:\Users\VA...	
BUTYL 301	108	Pre Release -	Mooney	00:08:00	948.1	125	Large	14:09	25/1/18	C:\Users\VA...	
BUTYL 301	109	Pre Release -	Mooney	00:08:00	950.0	125	Large	14:21	25/1/18	C:\Users\VA...	
BUTYL 301	110	Pre Release -	Mooney	00:08:00	RE304.1	125	Large	14:34	25/1/18	C:\Users\VA...	
BUTYL 301	111	Pre Release -	Mooney	00:08:00	948.5	125	Large	14:50	25/1/18	C:\Users\VA...	
BUTYL 301	112	NSI 29 1	Mooney	00:08:00	948.6	125	Large	09:29	30/1/18	C:\Users\VA...	
BUTYL 301	113	South Test 2 -	South	01:6:10	RE50.1	125	Large	09:44	30/1/18	C:\Users\VA...	
BUTYL 301	114	South Test	South	01:6:20	RE304.1	125	Large	09:50	30/1/18	C:\Users\VA...	
BUTYL 301	115	Roller Test 1 -	Mooney	00:14:00	FAL	125	Large	23:20	14/2/18	C:\Users\VA...	
BUTYL 301	116	RT 14 01	Mooney	00:14:00	98.23	48.0	125	Large	23:23	14/2/18	C:\Users\VA...



FM12340

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Analogue and digital models available - versions as specified below:

Analogue Model - WAV3/1

- Provides single reading of test result
- Uses digital temperature controllers

Digital Model - Standard Version, WAV3/2

- PC interface (RS 232)

Digital Model - Printer Version, WAV3/3

- Same specification as WAV3/2 plus
- Compact printer with high speed print capability
- 24 character column print output

Specifications

Mooney Viscometer Mk III	
Part Number	WAV3/1, WAV3/2, WAV3/3
Dimensions (mm)	810 (h) x 510 (w) x 460 (d)
Weight	127 kg
LED screen, (excl. V3/1)	2 line, 20 character back-lit display housed in control panel
Controls	3 sealed switches with integral LED indicators
Die heating Temp. range	By elements to upper and lower platens. 700W per element 80 - 150°C (±0.1°C)
Max. torque	Cut out at 200 Mooney points
Die closure	Using Pneumatic cylinder
Air line pressure	80 psi or 5 bar maximum
Gauge, (excl. V3/1)	0.0 - 0.5" range. 0.0005" resolution.
Pressure controls	Twin controls for platen closure and test routine
Operating Temperature	10 to 40°C; Altitude 2000m maximum
Humidity Range	10 to 80% RH non-condensing
X20 Printer (V3/3 Model only)	
Weight	500g + PSU 200g
Dimensions (mm)	95 (h) x 125 (w) x 195 (d)

Standards

ASTM D1646, ISO 289-1

