

Viscosity

Mooney Viscometer Mk III

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

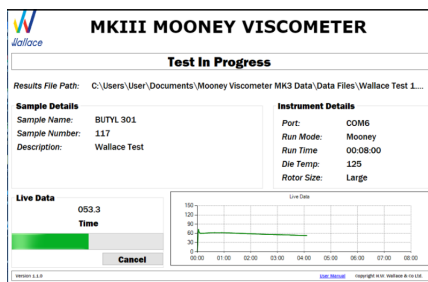
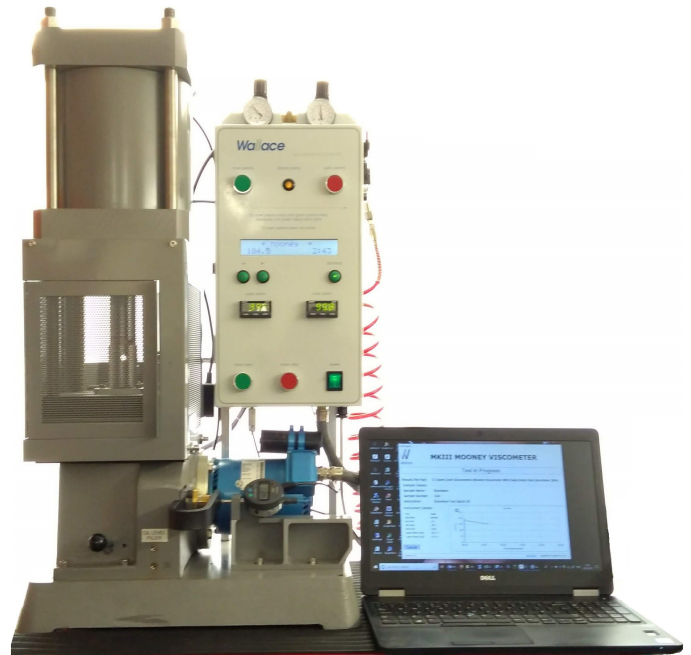
Features

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

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 digital dial gauge 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

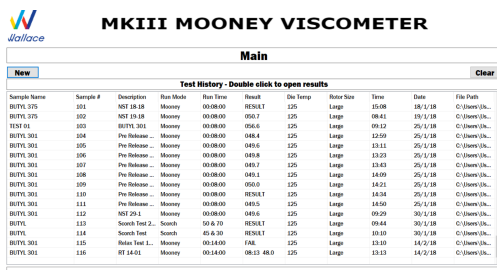
Accessories

Standard Accessories:

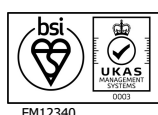
- Large rotor
- Small rotor
- Tool set

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	MT 18.18	Mooney	00:08:00	853.1	125	Large	15:08	18/1/18	C:\Users\j... \
BUTYL 375	102	MT 19.18	Mooney	00:08:00	850.7	125	Large	08:41	19/1/18	C:\Users\j... \
BUTYL 301	103	BTTC 301	Mooney	00:08:00	456.6	125	Large	09:12	20/1/18	C:\Users\j... \
BUTYL 301	104	Pv Release ...	Mooney	00:08:00	484.4	125	Large	12:59	20/1/18	C:\Users\j... \
BUTYL 301	105	Pv Release ...	Mooney	00:08:00	485.6	125	Large	13:11	20/1/18	C:\Users\j... \
BUTYL 301	106	Pv Release ...	Mooney	00:08:00	485.8	125	Large	13:22	20/1/18	C:\Users\j... \
BUTYL 301	107	Pv Release ...	Mooney	00:08:00	483.7	125	Large	13:43	20/1/18	C:\Users\j... \
BUTYL 301	108	Pv Release ...	Mooney	00:08:00	483.1	125	Large	14:00	20/1/18	C:\Users\j... \
BUTYL 301	109	Pv Release ...	Mooney	00:08:00	450.0	125	Large	14:21	20/1/18	C:\Users\j... \
BUTYL 301	110	Pv Release ...	Mooney	00:08:00	483.1	125	Large	14:34	20/1/18	C:\Users\j... \
BUTYL 301	111	Pv Release ...	Mooney	00:08:00	485.0	125	Large	14:50	20/1/18	C:\Users\j... \
BUTYL 301	112	MT 29.1	Mooney	00:08:00	483.6	125	Large	09:29	30/1/18	C:\Users\j... \
BUTYL	113	Scotch Test 2	Scotch	00:16:30	483.8	125	Large	09:44	30/1/18	C:\Users\j... \
BUTYL	114	Scotch Test	Scotch	01:46:30	483.8	125	Large	10:10	30/1/18	C:\Users\j... \
BUTYL 301	115	Roller Test 1	Mooney	00:14:00	484.1	125	Large	13:10	14/1/18	C:\Users\j... \
BUTYL 301	116	BT 14.01	Mooney	00:14:00	483.1	125	Large	13:13	14/1/18	C:\Users\j... \



Mooney Viscometer Mk III

Digital models available - versions as specified below:

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	WAV3/2, WAV3/3
Dimensions (mm)	810 (h) x 510 (w) x 460 (d)
Weight	127 kg
Maximum Power Requirements	1700 VA
LED screen	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	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

