paralab

MonTech®
Rubber Testing Solutions

TECHNICAL SPECIFICATION

International standards	ISO 6502, ASTM D 5289, DIN 53529
Die configuration	Biconical, closed System, sealed
Drive system	Mechanical, brushless DC eccentric drive
Oscillation frequency	1.667 Hz (100 cpm)
Oscillation strain	+/- 0.1°, 0.2°, 0.5° (Standard), 1°, 3°, 7,17 (100%), Mechanically adjustable (+/- 1.4%, 2.8%, 7% (Standard), 14%, 42%, 100%)
Torque range	Ambient to 232 °C
Measured Data	Torque (dNm, lbf.in, kgf.cm), Temperature (°C, °F), Pressure (bar, kg per cm^2), Time (min - min / min - sec / sec), Shear rate (1/s, rad/s), Cure rate (1/min, 1/sec)
Calculated Data	S´, S˝, S*, tan δ, phase angle, cure speed, ...
Die gap	0.45 mm nominal

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Sample volume	approx. 4.5 cm^3
Closing system	Pneumatic with soft-close to prevent foil rips
Temperature control system	Ambient to 232 °C, precision +/- 0.03 °C, Max. heating rate: 85°C/min digital, microprocessor PID controlled
Temperature check system	Recordings of the temperature gradient on the screen, microprocessor monitored
Data Interface	Ethernet (10/100 MBit), USB (int.), CF card (int.), RS232 (opt.)
Data points	Over 3500 data points available for each test Including S‘ Min, S‘ Max, TS 1, TS 2, TC 10, TC 30, TC 50, TC 90
Pneumatics	min. 4.5 Bar / 60 psi
Electrical	Single phase 100 - 120 V, 8 Amps or 200 V - 240 V, 5 Amps
Instrument options	Instrument control panel with 5“ touchscreen display and printer; Normal force / Pressure measurement; Single channel forced air cooling system; Autoloader 5 or 10 sample linear; Autoloader with 24 or 48 sample tray; R-VS 3000 constant volume sample cutter; High resolution torque transducer (0.001dNm to 235dNm); Selectable oscillation frequency (1,667Hz (100cpm) and 0,833Hz (50cpm))