

RPA 2000™

The world standard for measuring rubber properties before, during and after cure

Features

- n Measures dynamic properties of raw elastomers or mixed rubber.
- n Cure tests, sweep tests, stress relaxation tests.
- n Meets ASTM D5289, D6048, D6204, D6601, D7050, and D7605.
- n Sealed biconical dies.
- n Low friction reaction torque measurement.
- n Superb temperature stability and control with cooling.
- n Repeatable and reproducible data.
- n Enterprise Pathfinder software simplifies test setup and SPC control of processes.
- n System can be automated to test up to 100 samples.

Specifications

FREQUENCY:	0.1 to 3000 cpm (0.0016 to 50 Hz)
TEMPERATURE RANGE:	RT to 230°C
MAX RAMP RATE:	1 C/s
MAX COOL RATE:	0.5 C/s
STRAIN:	±0.3% to ±1250% (±0.02 to ±90 degrees)
MEASURED DATA:	Torque, temperature, frequency, strain
CALCULATED DATA:	G', G'', G*, S', S'', S*, tanδ, η', η'', and η*
DATA STORAGE:	SQL database
REPORTS AND EXPORT FILES:	Numerous formats
INSTRUMENT LANGUAGES:	English, French
ELECTRICAL:	<ul style="list-style-type: none">• 100/110/120/130 VAC ±10%, 60 ±3 Hz, 10-amp single phase• 200/220/240/260 VAC ±10%, 50 ±3 Hz, 5-amp single phase
AIR PRESSURE:	80 psi (5.6 kg/cm ² 551 kPa) minimum
DIMENSIONS:	Width 68 cm (27 in), height 132 cm (52 in), depth 76 cm (30 in)
WEIGHT:	Net 177 kg (389 lb), gross 280 kg (616 lb)



RPA 2000



Close-up of lower die.

RPA 2000™

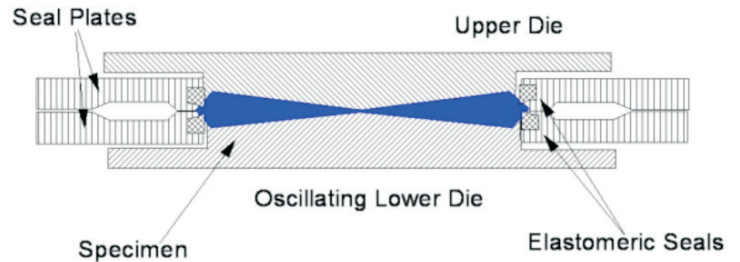
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Performance

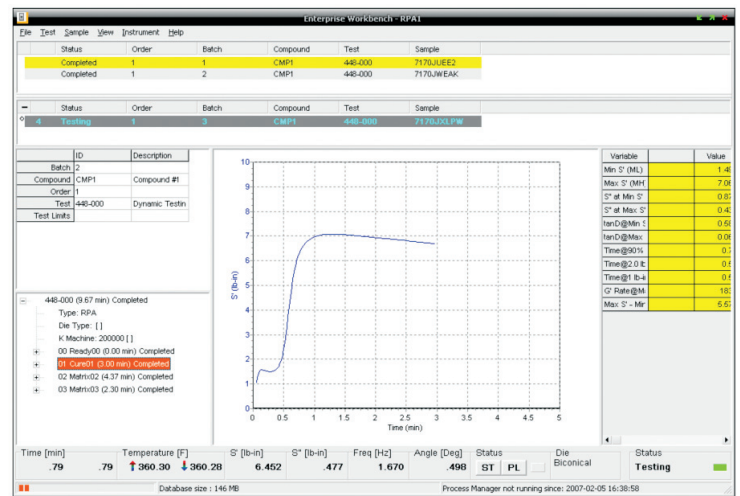
- n Measure dynamic properties of rubber before cure, during cure or post-cure.
- n Characterize raw polymers.
- n Excellent test sensitivity to mixing errors or compound changes.
- n Limited operator influence.
- n Excellent repeatability.
- n Suitable for quality control or research and development.
- n Used as a world standard by many international organizations.

Options

- n Automation (10 or 100 samples).
- n Enterprise and Eclipse software systems for handling historical data.
- n Sample cutter Model 2000R for rubber.
- n Films to handle easy or difficult.



Die configuration of RPA 2000



RPA test displayed by the Enterprise software system