

PREMIER™ RPA+

Rubber Process Analyzer Plus

- Measures dynamic properties of raw elastomers or mixed rubber before, during and/or after cure. The Premier™ RPA+ is equipped with Alpha's patent-pending PDM™ (Precision Dynamic Modulus™) system for advanced RPA testing.



ALPHA TECHNOLOGIES

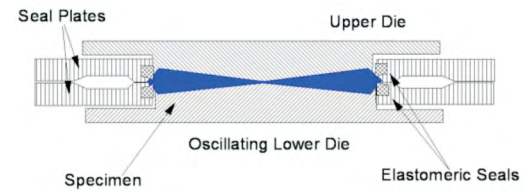
PREMIER™ RPA+

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Features



- Precision Dynamic Modulus™ (PDM™) system reduces sample slippage and more accurate viscosity and modulus data
- Advanced Fourier Transform Rheology tests, including long chain branching (LCB) determination
- NIST traceable standards ensure excellent reproducibility worldwide
- Includes pressure transducer for pressure measurement
- Operates using Enterprise software, a flexible LIMS system based on an open SQL database platform



Performance



- DYNAMIC SYMMETRY™ - A system that ensures dies remain parallel to reduce variation
- SMART ALIGNMENT™ - A system that ensures excellent die cavity sealing for better repeatability
- PDM™ provides true strain control testing
- Eliminates errors in modulus calculations when sample shape deviates from the nominal value
- Characterize raw polymers or compounds
- Excellent test sensitivity to mixing errors or compound changes
- Suitable for quality control or research and development
- Improved repeatability and reproducibility of modulus and tan delta results

Options

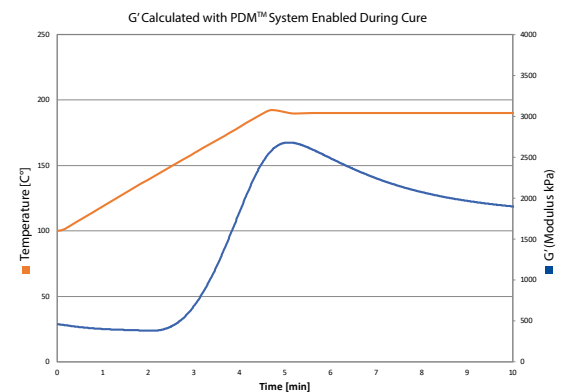
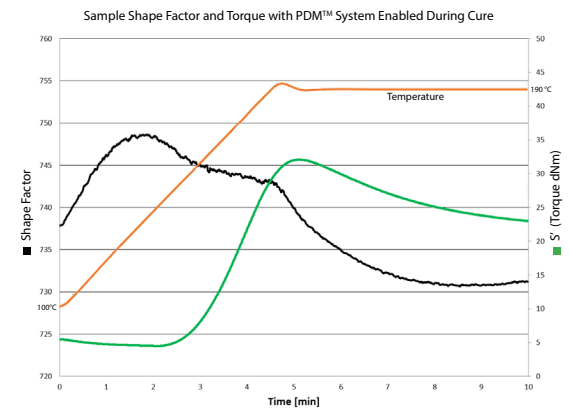


- Automation
- Constant volume sample cutter
- Wide Assortment of films for different applications
- Multiple languages available

Specifications



FREQUENCY:	0.1 to 3000 cpm (0.0016 to 50 Hz)	TESTING STANDARDS:	Meets ASTM D5289, D6048, D6204, D6601, D7050, D7605, and D8059
TEMPERATURE RANGE:	Ambient to 446°F (230°C)	REPORTS AND EXPORT FILES:	Numerous formats including text and Microsoft Excel © files
MAX RAMP RATE:	1.8°F/sec (1°C/sec)	ELECTRICAL:	100/110/120/130 VAC ±10%, 60 ±3 Hz, 20 amp single phase 200/220/240/260 VAC ±10%, 50 ±3 Hz, 10 amp single phase
MAX COOL RATE:	0.9°F/sec (0.5°C/sec)	AIR PRESSURE:	80 psi (5.6 kg/cm 2551 kPa) minimum
STRAIN:	±0.07% to ±1255% (±0.005 to ±90 degrees)	DIMENSIONS:	W: 22 in (56 cm), H: 48 in (122 cm), D: 25 in (64 cm)
MEASURED DATA:	Torque, temperature, frequency, strain, pressure, and loss angle	WEIGHT:	Net 346 lb (157 kg), gross 616 lb (280 kg)
CALCULATED DATA:	G', G'', J', J'', J*, S', S'', S*, tanδ, η', η'', and η*		



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