

MonTech PO 3000

Ageing oven for Plasticity Testing

The MonTech ageing oven for plasticity testing

ages rubber in accordance with international testing standards. In conjunction with the MonTech Plastimeter, it allows the user to determine the Plasticity Retention Index (PRI) of raw natural rubbers.

Housed in a robust stainless steel case, the MonTech ageing oven for plasticity testing features an aluminum block with four chambers that carry the drawer units and sample dishes. Heater elements are wrapped around and inside the block and high quality insulation inside the case minimizes heat loss.

An adjustable air blower system, which provides pre-heated air to the chambers, is located on the rear panel for easy service access.

Test samples are placed on round foil dishes, which are located in recesses in the drawer units. When a drawer is pushed in, a timing sequence starts only for that chamber.

As the 30 minute ageing process ends, the light next to the drawer changes color to remind the operator to remove the sample. Also the ageing oven beeps to show that ageing is finished. If the ageing period is exceeded, the light changes to red indicating that the samples should be discarded.

A temperature of 140°C (required by the standard) is maintained by a PID Controller, which continuously displays the chamber temperature. The MonTech ageing oven for plasticity testing is protected by a warning system, which is initiated if the correct temperature is exceeded by more than 10°C.

Features

- Temperature controlled to $140 \pm 0.2^\circ\text{C}$
- Four chambers with independent timers
- Stability check and overheat protection
- Digital temperature display



PO 3000 - Sample loading made easy



1 - Remove drawer from the oven



2 - Place aluminum dish



3 - Install aluminum dish



4 - Remove installation tool



5 - Load samples



6 - Put drawer back in the oven to start the 30 minute ageing sequence

Technical specification

Standards	BS 903 Pt. A59, ASTM D 3194, ISO 2007
Temperature Recovery	1 minute at 140°C after sample insertion
Operating Temperature	140 ± 0.2°C (adjustable from ambient to +200°C)
Chamber Dimensions	4 chamber with 50 mm x 12 mm x 280 mm
Max Samples per Oven	48
Max Samples per Tray	12
Dishes Per Tray	4
Heating Chambers	4
Air exchange rate	adjustable 0 to 120 times / hour
Weight	approx. 27 kg net
Electrical	90-250 V, 10 Amps, 47-63 Hz, Single phase



Drawers loaded with samples

Package including:

- Temperature controller (PID)
- 4 trays with 4 dishes each
- Electronic system with 4 independent timers, acoustic alarm and monitoring system
- Standard accessories package