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MODEL TM-2535/TM-2536

GEHMAN TORSION TESTER

Outline

Rubber loses resiliency as temperature goes down. The frozen rubber can't keep its essential characteristics under the temperature below Glass Transition Point (T_g).

In fact, rubber applications under severe environments such as vehicle tires in the frozen area and aircraft components in the stratosphere are seriously affected.

It is of vital importance for rubber applicants to test the low-temperature characteristics of vulcanized rubber.

The Ueshima Gehman torsion testers are the most popular testing machines for this purpose which conform to JIS K6261-3 and ISO 1432 for low-temperature stiffening (Gehman test) of vulcanized or thermoplastic rubber.

The Models TM-2535 and TM-2536 satisfy performance requirements specified by JIS K6261-3 and realize the ease of use with a fully automatic measurement and data processing system.



MODEL TM-2535



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UESHIMA SEISAKUSHO CO., LTD

Feature

- Simultaneous tests of 6 specimens including one specimen whose low-temperature torsional rigidity is known. The testing capability of this is recommended by the standard JIS K6261-3 for reliable test data.
- Temperature-apparent torsional modulus of the rigidity curve is also displayed and recorded in addition to the temperature-twist angle curve.
- The computer calculates not only relative modulus but also glass transition temperature (T_g) which is an important measure of low-temperature characteristics of rubber.

Specification

| Model | TM-2535 | TM-2536 |
|------------------------|--|---|
| Applicable Standard | JIS K6261-3, ISO 1432 | |
| Cooling Method | Refrigerator | Dry Ice |
| Number of Samples | 6 (simultaneous measurement) | |
| Temp. Range | -70°C to RT(23°C±2°C) | |
| Temp. Rising | Every 5°C (kept at each set temp. for 5 min.) | |
| Temp. Control | PID controlled digital temperature controller, sensor PT100Ω | |
| Heat Transfer Medium | Ethanol | |
| Torsion Angle Setting | Rotary encoders, minimum angle display: 0.36° | |
| Data Processing | Data (glass transition temp. T _g) display Graph (temp. – torsion angle curve, temp. – apparent torsion modulus curve) Filing (data, test conditions, PID setting) Release of torsion wire | |
| Safety Device | leakage breaker, overheat protector | |
| Power Supply | 200VAC, 3 phases, 30A, 50/60Hz (100VAC for PC) or specified voltage | 200VAC, 3 phases, 10A, 50/60Hz (100VAC for PC) or specified voltage |
| Dimensions (main body) | (W)520 x (D)780 x (H)1505 mm | (W)520 x (D)780 x (H)880 mm |

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<Manufacturer>

Ueshima

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※Please be noted that the contents in this brochure may change without prior notice due to improvement of the equipment. 027-468233-8