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DW1480 LOW TEMPERATURE BRITTLINESS TESTER



Model No.

DW1480

Application:

DW1480 Low Temperature Brittleness Tester is used to determine the brittleness temperature of plastics and elastomers by impact testing and evaluate their usage property under the condition of low temperature. It is also used to determine the brittleness temperature of different rubbers or vulcanized rubbers of different ingredients and assess their properties under the condition of low temperature. Specimens are fixed to a specimen holder with a torque wrench. The specimen holder is immersed in a cooling bath containing a heat-transfer medium. The specimens are struck at a specified linear speed and then examined. The brittleness temperature is defined as the temperature at which 50% of specimens fail.

Related Standards:

STANDARDS	ISO 974	ASTM D746
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Note: this tester can conform to but not limit to all the standards above, for more standards conformance, please contact us.

Features:

- Cooling tank with stirrer to keep temperature uniform;
- Quick to low temperature with less energy-consumption;
- Pneumatic clamping devices consisting of gas cylinder and base;
- Striking devices consisting of striking edge and gas cylinder;

Key Specification:

- Test temperature -70℃~Normal temperature
With a compressor to cool
- Temperature fluctuation $< \pm 0.5^{\circ}\text{C}$
In the 3-minute test after reach constant temperature
- Cooling time One hour
- Speed of striking edge 2000mm/s \pm 200mm/s
- Stroke of striking edge 40 \pm 1mm



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- Radius of striking edge $1.6 \pm 0.1\text{mm}$
- Weight of striking edge $200 \pm 20\text{g}$
- Radius of lower jaw of clamp $4.0 \pm 0.1\text{mm}$
- Clearance between outside of striking edge and clamp $2.0 \pm 0.1\text{mm}$
- Clearance between front point of striking edge and clamp $3.6 \pm 0.1\text{mm}$
- Heat-transfer medium industrial dry ice
- Volume of cooling tank 700ml

Standard configuration:

No.	Item	Quantity
1	Main machine	1 set

Optional Accessories:

No.	Item
1	