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JAPANESE INDUSTRIAL STANDARD

Testing method for heat sag of plastics

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1. Scope This Japanese Industrial Standard specifies the testing method for heat sag of plastics of which the heat resistance is required under no load condition.

Remarks 1. Testing method for heat sag is the method to measure the thermal deflection of a plate-type test piece, one end of which is fixed in cantilever position and another end is let free, after it has been held at specified temperature and for specified time.

From the degree of deflection, the heat resistance of plastics can be evaluated.

2. The Informative reference in this Standard describes the method to measure heat sag temperature.
3. The standards cited in this Standard are shown in the following.

JIS B 7502 Micrometer callipers for external measurement

JIS B 7507 Vernier, dial and digital callipers

JIS B 7516 Metal rules

JIS K 6900 Glossary of terms used in plastic industry

JIS K 7100 Standard atmospheres for conditioning and testing of plastics

JIS Z 8401 Rules for rounding off of numerical values

2. Definitions For the main terms used in this Standard, the definitions in JIS K 6900 apply, and the rest of the terms shall be as follows.

(1) heat-sag value Fix the test piece in cantilever position, hold it at specified temperature and for specified time, and the deflection found at free end of the test piece shall be defined as the value (distance measured vertically from its original position).

(2) overhang The protruded length of test piece fixed as cantilever position (Refer Fig. 2).

3. Conditioning of test piece, and temperature and humidity of measuring site The conditioning of test piece, and temperature and humidity in site, where dimension and deflection are to be measured, shall be as follows.

Related standard:

ASTM D 3769-85 Standard Method for Testing Microcellular Urethanes
- High-Temperature Sag