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JAPANESE INDUSTRIAL STANDARD

**Testing method for
softening temperature of
thermoplastics film and sheeting
by thermomechanical analysis**

JIS K 7196—1991

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Testing method for softening
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1. Scope

This Japanese Industrial Standard specifies testing method for softening temperature of thermoplastics film and sheeting by thermomechanical analysis (hereafter referred to as the "TMA") based on the needle inserting mode.

Remarks 1. Applicable Standards to this Standard are the following:

JIS K 1107 High Purity Nitrogen

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. In this Standard the units and numerical values shown in { } are in accordance with the traditional units and are informative reference values.

2. Definitions

For the purposes of this Standard main definitions are in accordance with JIS K 6900 and to others the following definitions apply:

- (1) TMA The method to measure the deformation of substance as the function of temperature or time under non-vibrating load while changing the temperature of substance according to the regulated programme.
- (2) TMA curve In TMA, the curve described by taking the temperature or time on the abscissa and the deformation amount on the ordinate.
- (3) needle inserting mode The system to measure the displacement of the test piece accompanied by softening, by using a needle state presser of TMA apparatus.
- (4) needle inserting temperature The temperature at displacement point to be obtained from TMA curve of needle inserting mode.