

1. PURPOSE

This standard is used to determine the temperature at which thermoplastics are softened when being heated.

2. SCOPE

2.1. This test method applies to determination of thermal properties at a specified condition for thermoplastics used for automobiles.

2.2. There are four methods depending on applied load and heating rate.

Method A/50: Load 9.81 N, heating rate 50°C/h

Method A/120: Load 9.81 N, heating rate 120°C/h

Method B/50: Load 49.5 N, heating rate 50°C/h

Method B/120: Load 49.05 N, heating rate 120°C/h

2.3. This standard shall not apply to materials having wide softening temperature range, such as ethyl-cellulose, soft polyvinylchloride and polyvinylidenechloride.

3. TEST PIECE

3.1. The test piece having 10 mm × 10 mm area and 3 to 6.4 mm thickness shall be cut from the product. The surface shall be flat and parallel to each other.

3.2. For the products of 6.4 mm or more in thickness, leave the one side as the initial condition and machine the other side to approx. 3mm. For the product of 3 mm or less in thickness overlap a few test pieces so that the whole thickness is 3 to 6.4 mm (However, not more than 3 test pieces shall be used.)

3.3. When the test specimen cannot be sampled from the product, it may be prepared especially in the specified size and thickness.

3.4. If there is no special specification, then approval sample shall be tested 3, and for routine quality control, shall be tested, at least 1 test piece.

3.5. Sample of components or material released to this specification shall be tested for conformity with the requirements of this specification and approved by **GMDAT** TECHNICAL CENTER prior to comments of delivery of bulk supplies.

3.6. In the event of any intentional deviation for the requirements of this specification it is the sole, responsibility of the supplier to inform the purchaser of all such deviation. Furthermore the supplier shall submit unsolicited samples for reapproval by **GMDAT** TECHNICAL CENTER prior to comments of delivery of bulk supplies.

3.7. Deviation from the requirements of this test method (e.g. test piece conditioning, technical data of test