

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

DETERMINING DENSITY OF PAPER CARDBOARD, WOOD, FIBREBOARDS, CHIPBOARD ETC

EDS-T-7305

ISSUED DATE: 1994. 01. 04

REVISED DATE: 2006. 06. 19

VERSION: 3

1. PURPOSE

This standard shall be used for the determination of the density defined as the quotient of mass and volume.

2. SCOPE

This standard applies to the determination of density of paper, cardboard, fiberboards, chipboard and similar materials.

3. TEST PIECES AND NUMBER OF TEST PIECES

3.1. Test piece should be 2 square which has 100 ± 1 mm side length. Test pieces shall be taken from various points, equally distributed over the whole area and parallel to an outer edge.

3.2. Number of test pieces

3.2.1. For initial sample approval : at least 3 test pieces

3.2.2. For routine quality control : at least 2 test pieces

4. CONDITIONING

For initial sample approval purposes and routine quality control, conditioning shall be carried out to EDS-T-7507.

5. APPARATUS

5.1. Thermohygrostat for conditioning to EDS-T-7507.

5.2. Apparatus for determining thickness to EDS-T-7624, 1C.

5.3. Suitable cutting devices or shears for preparation of test pieces.

5.4. Balance accurate to ± 1 mg

6. PROCEDURE

6.1. The test pieces shall be carried out immediately after conditioning at a temperature of $23^\circ\text{C} \pm 5\text{K}$.

6.2. The thickness shall be measured to EDS-T-7624, 1C at 5 different points. (One in the center, the other four on each diagonal, 35 mm from each corner)

6.3. The side length shall be measured to the nearest 0.1 mm.

6.4. Test pieces shall be weighed to the nearest 1.0 mg.