

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

THE TEST METHOD DETERMINING THE MELTING TEMPERATURE OF PLASTICS

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1. PURPOSE

This test method is used to determine the melting temperature, a major thermal change of crystalline polymer

2. DEFINITION

2.1. Melting temperature: The melting point of the crystal of crystalline polymer that melts at the highest temperature

3. TESTS PIECES

3.1. Method 1

Take a sample of 50 ~ 100 mg out of a completed product

3.2. Method 2

Take a sample of 50 ~ 100 mg out of a completed product as thin as possible

3.3. Tests shall be conducted twice or more for initial approval and once for quality control

4. CONDITIONING

Test pieces shall be left at a temperature of $+23^{\circ}\text{C} \pm 2\text{K}$ and relative humidity of (50 ± 5) for 24 hours min. before tests.

5. APPARATUS

5.1. Method 1

5.1.1. Thermal analysis

DuPont 2100 model or the one equivalent to it. A heat - flow type DSC(differential scanning calorimeter) module shall be furnished.

5.2. Method 2

5.2.1. Hot stage: Mettler FP 82 or the one equivalent to it

5.2.2. Temperature controller: METTLER FP 80 or the one equivalent to temperature controller

5.2.3. Microscope of 400 magnifications

5.2.4. Slide glass and cover glass

5.3. Cutter to take samples

5.4. Tweezers