



Methods of Test for Sound Deadener Pads; Test for Formability

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. This standard shall be used to determine the formability of sound deadener materials used in automotive body trim applications. The test simulates the production baking process under laboratory conditions. Formability of deadener materials, as determined by this test method, shall be defined as the ability of the material to comply with the contours of a standard steel test panel when subjected to the baking conditions, see Table 1.

Table 1: Bake Conditions

Bake Description	Minimum (Time at Metal Temperature)	Maximum (Time at Metal Temperature)
Paint Shop Processing Bakes – Covers Low Bake, High Bake, Powder Bake and 3-Wet Shops (Use for Material Types 1 thru 5, see GMW15067)	15 minutes at 125 °C (257 °F)	60 minutes at 190 °C (374 °F)

1.2 Applicability. Test is for heat fusible pads that are used on floors, transmission tunnels and roofs.

1.3 Remarks. None.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

GMW2 GMW3221 GMW15067

2.3 Additional References.

 None.

3 Resources

3.1 Facilities.

 Not applicable.

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

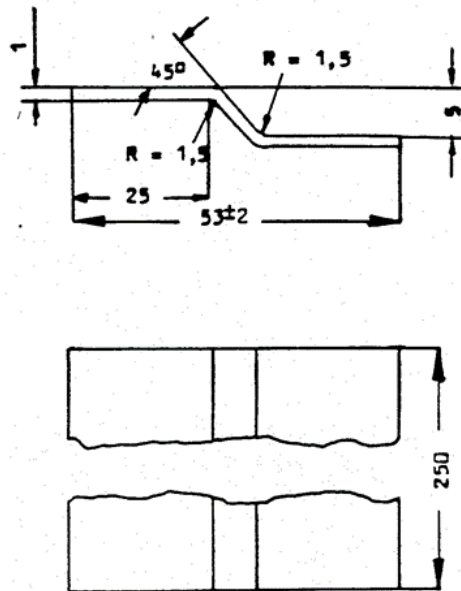
3.2 Equipment.

3.2.1 Test apparatus for conditioning according to GMW3221, Code A.

3.2.2 Any forced-air drying oven capable of maintaining the specified temperatures within the specified tolerances.

3.3 Test Vehicle/Test Piece. Tests shall be performed using steel test panels according to GMW2. The test panels shall comply with the dimensions shown in Figure 1.

Figure 1: Test Panels



Note: All dimensions are in millimeters (mm).

3.3.1 From the available material, test pieces (250 mm $\pm$ 0.5 mm $\times$ 50 mm $\pm$ 2 mm $\times$ thickness of deadener pad) shall be taken. The direction of sampling is unimportant.

3.3.2 For initial sample approval and arbitration purposes, at least three (3) test pieces shall be tested. For routine quality control, at least one (1) test piece shall be tested

3.4 Test Time.

Calendar time: 0.5 days

Test time: 3 hours

Coordination time: 1 hour

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Persons performing this test are required to use proper protective equipment, eye protection with side shields and gloves to prevent contact with test materials. Operators should be trained in operating this equipment and conducting this test.

4 Procedure

4.1 Preparation. Tests pieces shall be conditioned to GMW3221, Code A.

4.2 Conditions.

4.2.1 Environmental Conditions. Not applicable.

4.2.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.