



SURFACE VEHICLE RECOMMENDED PRACTICE

J1355™

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Test Method for Measuring Thickness of Resilient Insulating Paddings

RATIONALE

Update contact information in Appendix A.

1. SCOPE

This SAE Recommended Practice describes a laboratory test procedure for measuring the thickness of various resilient insulating padding materials that are used in the automotive industry. Such padding materials may include synthetic or non-synthetic materials, fibrous or cellular materials, high loft or compressed materials, single layer homogeneous or multilayer products, low and high surface density products. Some of these samples may be deformable and elastic, high loft thermal and acoustical fibrous materials, as well.

The test method described herein has been developed to establish a means of a uniform procedure for measuring the thickness of different types of samples not only for application to all ground vehicles, but also may be applicable to other situations or conditions. The test method is designed to measure the thickness of flat samples and not formed parts.

This test method does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. This test method provides a different thickness measuring device than what has been mentioned in SAE J1355_198704.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publication

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE TSB 003 Rules for SAE Use of SI (Metric) Units

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2.1.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D5736 Standard Test Method for Thickness of Highloft Nonwoven Fabrics

3. APPARATUS

3.1 It is a parallel plate four-bar linkage thickness measuring device with a counter weight. Appendix A at the end of this standard provides some sources from where this device can be procured.

This device is essentially a table with an upright at the rear (see Figure 1). There are four pivotal arms connected to the upright in such a way that the pivotal arms can carry a flat platen of 305 mm x 305 mm size. The pivotal arms are attached to the uprights and the platen in such a way that when the arms are raised or lowered, the platen is also raised or lowered with its faces staying parallel to the base plate at all times. The specimen (material to be measured) is placed on the table, a predetermined weight (load) is placed on the platen, and then the platen is lowered until it rests lightly on the material. The thickness of the specimen is shown in the thickness measuring indicator.

3.2 Thickness Gauge

Thickness measuring indicator with single point-contact loading foot and 0.1 mm or equivalent graduations.

3.3 Cutting Dies or Templates

To cut specimens 305 mm x 305 mm in size with a tolerance not to exceed ± 3 mm.

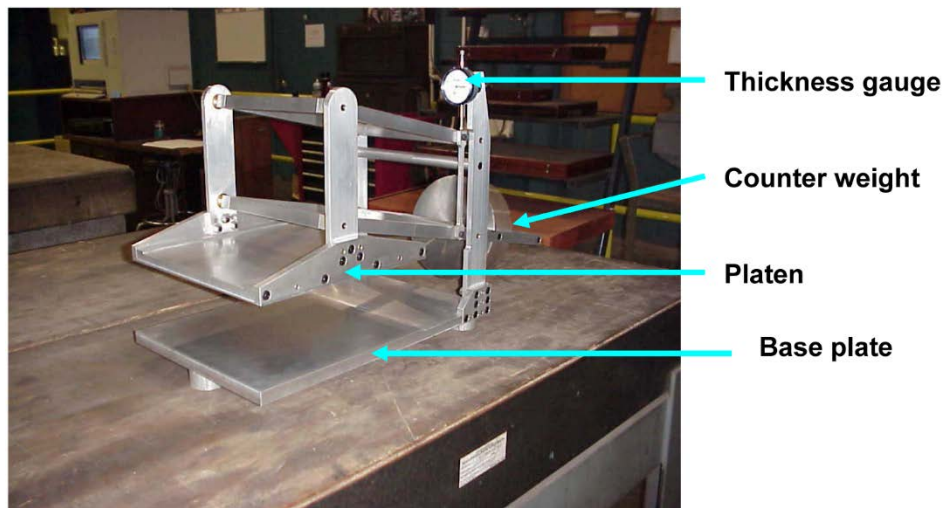


Figure 1 - Photograph of a typical parallel plate four-bar linkage thickness measuring device