

400 Commonwealth Drive, Warrendale, PA 15096-0001

SURFACE VEHICLE RECOMMENDED PRACTICE

SAE, J882

REV. MAY2002

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Superseding J882 AUG1994

(R) Test Method for Measuring Thickness of Automotive Textiles and Plastics

- Scope—This test is designed to measure the thickness of textiles, plastics, and similar materials.
- 2. **References**—There are no referenced publications specified herein.
- 3. Apparatus Required
- 3.1 A dead weight type of dial micrometer capable of accurately measuring to 0.025 mm. The pressure foot shall have a diameter and mass, including connecting parts, of:
 - a. 76.2 mm ± 0.8 mm and 340 g ± 3 g for testing tufted floor coverings
 - b. $28.7 \text{ mm} \pm 0.3 \text{ mm}$ and $283 \text{ g} \pm 3 \text{ g}$ for testing felts and other nonwovens
 - c. $6.35 \text{ mm} \pm 0.06 \text{ mm}$ and $85 \text{ g} \pm 0.8 \text{ g}$ for testing bodycloths, seatbelt webbing, unsupported vinyl films, and coated fabrics
 - d. Or as agreed between contractual parties.
- 4. **Test Specimens**—Cut three test specimens approximately 100 x 100 mm from the center and the two opposite sides of the roll. Unless otherwise specified, specimens shall be taken no nearer the selvage edge than one-tenth of the width of the material, nor nearer than 300 mm from either end of the roll. If the material is not supplied on rolls, the specimen shall be taken from the most representative areas.
- 5. Procedure
 - a. Condition the specimens at 21 °C ± 2 °C and 50% ± 5% relative humidity for 24 h.
 - b. Raise the pressure foot of the thickness gauge.
 - c. Place the specimen on the base.
 - d. Gently lower the pressure foot.
 - e. After 10 s read the thickness of the specimen.
 - f. Repeat for two additional specimens.
 - g. Report the average thickness of three specimens.
 - h. When measuring the thickness of three dimensional material the thickness shall be determined by calculating the average of the three readings taken on the high points of the material.

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6.	Notes
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6.1 Marginal Indicia— The change bar (I) is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.

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