



RESISTANCE TO ABRASION - TABER ABRASER

Application

This procedure is used to test the abrasion resistance of textile fabrics, coated fabrics, genuine leather, plastics, painted surfaces, tapes, all weather floor mats, carpets, and other floor covering materials.

Apparatus and Materials Required

Abraser

Model 135, or equivalent, which meets the requirements of ASTM D3884. The abraser shall be equipped with a vacuum attachment.

Specimen Holder

Catalog No. E-100-125 108 mm O.D.

Hold Down Ring

Catalog No. E-100-101 108 mm I.D.

Rubber Pad

Catalog No. S-19.

Clamp Plate

32 mm O.D.

Diamond Wheel Refacer

Model 250 or equivalent.

Abrasive Discs

Catalog No. S-11.

Auxiliary Weights

500 g (Catalog No. 125769), 1000 g (Catalog No. 125770), or as specified by the applicable Engineering Material Specification.

Wheels

Type - Calibrate H-10 or H-18 for carpets, Calibrase CS-10 for all other materials unless otherwise designated by the Engineering Material Specification.

Date: Use prior to expiration date stamped on wheels.

Sources:

Taber Instrument Corp.
North Tonawanda, N.Y.
U.S.A.

<http://www.taberindustries.com/>

Erichsen GmbH & Co.
Hemer-Sundwig, Westfalen
Germany

<https://www.erichsen.de/erichsen-en>

Date	Action	Revisions	Rev. 3
2017 07 07	Revised	See Summary of Revisions	A. Collins, NA
2001 09 11	Revised	Editorial – no technical change	A. Cockman
1996 04 26	Activated		





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Procedure

1. Cut specimens 106 mm in diameter with a central hole 6 mm in diameter. The bottom surface of the test specimens should be flat.
2. Select the wheels designated by the applicable Engineering Material Specification.
3. Select the weights designated by the applicable Engineering Material Specification. The weight specified in the Engineering Material Specification is the total weight for each arm.
4. Reface the wheels according to Appendix 1.
5. Place a test specimen on the rubber pad of the specimen holder and tighten down securely with a 32 mm clamp plate when possible and nut.
6. Place the hold down ring over the test specimen, press the ring with the fingers and tighten it. The specimen, when properly secured, shall be free of wrinkles and bulges.
7. Place the wheels on the arms and secure with the mounting nuts. Place the weights on the arms and lower the wheels. Adjust the vacuum pick-up nozzle to 3 mm above the test specimen.
8. Abrade the test specimens for the number of cycles indicated by the applicable Engineering Material Specification.

Evaluation

Observe and report occurrence of abrasion on the specimens by comparing with the boundary samples located in the Engineering Performance Specification, or as required by the applicable Engineering Performance Specification.

Summary of Revisions

2017 07 07

- Updated material and apparatus numbers and locations to purchase
- Removed wet abrasion method
- Added Appendix 1 for re-facing wheels
- Combined procedures into 1 regardless of material being tested.