

Taber abrasion machine EL-77



Standards

ISO 17076-1:2012 | IULTCS/IUP 48-1 (Leather Determination of abrasion resistance Part 1: Taber method)

ISO 5470-1:2016 (Rubber- or plastics-coated fabrics — Determination of abrasion resistance - Part 1: Taber abrader)

ASTM D3884-09 (2017) (Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method)).

Purpose: intended to determine the wear resistance of all kinds of structures including metals, paints, plated surfaces, coated materials, textiles, leather and rubber.

Scope: Taber abrading wheels produce characteristic rub wear action. The equipment rotates a test piece on a vertical axis against the sliding rotation of two abrading wheels which are pressed against the test piece with a specified force. One abrading wheel rubs the test piece outwards towards the periphery, while the other inwards to the center. Driven by the test sample, the wheels produce abrasion marks that form a pattern of crossed arcs over a circular ring approximately 30 square centimeters. Any damage to the test piece is noted along with any change in color.

Simple to operate, this instrument has been accepted worldwide as a standard for wear and abrasion research, quality and process control, materials evaluation, and product development. Taber Rotary Abrasers can provide reliable data in a matter of minutes, compared to the years that may be required with in-use testing.

The Taber Abraser can be used to test virtually any flat specimen. Its field of application has included tests of: painted, lacquered, powder coated, and electroplated surfaces; textile fabrics ranging from sheer silks to heavy upholstery and carpeting; and solid materials such

as metals, stone, and ceramics. Other materials include paper, glass, plastics, leather, rubber, linoleum, laminates, plus many others.

Main Features

- Extremely easy to learn to operate
- Horizontal motor driven platform, rotating at (60 ± 2) or (70 ± 2) Rpm
- Removable, flat, circular test piece holder
- Pair of pivot arms, for holding abrasive wheels with the inner edge of the wheels $26,20 \pm 0,25$ mm from the center of the motor shaft and pressing each abrasive wheel against the test piece with a force of $2,5 \pm 0,1$ N.
- Additional weights, to increase force between the abrasive wheel and the test piece to $5,0 \pm 0,1$ N or $10,0 \pm 0,1$ N
- Quick release mounting hub permits quick wheel mounting without the need of a locking nut
- Vacuum nozzle, with inlet set just above the upper surface of the test piece
- Vacuum system with precision height adjustment
- Counter integrated into touchscreen interface, showing the number of revolutions of the platform

Power Supply: 230 V.AC – 50/60 Hz | Power Consumption: 400 W

Air Supply: Not Required

Supplied with

- a) Instructions manual;
- b) Conformity; CE and Warranty Certificates;
- c) Workshop Calibration Certificate;
- d) Electrical diagram;
- e) Standard cutting dye to cut test.

Machine overall dimensions: 33 x 40 x 30 cm (WxDxH)

Net Weight: 28 Kg