



## No.2082

## Taber type abrader

Depending on the paper type (paper for book covers, wrapping, banknotes, etc.), paper is subject to wear and breakage due to various impacts including folding, wrinkling, friction and fluffing that may occur up to the time of its discard.

This abrader measures abrasion resistance of paper, fabric, plastic and metal material, and can test painted or plated surfaces as well as laminated or coated surfaces. This abrader incorporates a specimen stage that rotates at a fixed speed and two abrading wheels on the stage that can be rotated at a desired speed. The rotation of the specimen stage drives the wheels to rotate in the opposite directions; the rotating wheel on the right-hand side rubs the specimen from the back toward the near side while the other on the left-hand side rubs it from the front side toward the back. Those rotations create X-shaped friction trajectories crossing each other while wearing out the specimen, with each rotation leaving an arc-shaped trajectory with an external diameter of about 89mm and an internal diameter of about 63mm. The abrasion resistance of the specimen is represented by the abrasion loss after a certain number of rotations or the number of rotations that the specimen can withstand before being worn out and penetrated.

**Rotation speed of specimen stage:** 70rpm

**Loads:** 250, 500, 1000g

**Accessories:** refacer, electric cleaner

**Referential standards:** JIS K-6902-98, TAPPI T476om-01

**Power source:** 100/110VAC 50/60Hz 15A

**Outer dimensions:** 470 x 350 x 260mm

**Instrument weight:** 47kg



## No.2083

## Paperboard abrasion tester

Corrugated cardboard boxes and paperboards are subject to significant vibrations and friction during feed to a box making machine or cargo transport. Surface abrasion resistance is important for avoiding peeling under such actions. This tester measures the resistance of paperboard to surface abrasion. Specimens are fixed to two different friction parts in the arc form. A couple of specimens of the same direction (MD or CD) rub each other on the test surface. The number of reciprocating motions is read on the counter, till fibers remove from the surface or abrasion occurs.

**Curvature radius of arc friction part:** upper 50 + 0.5mm, lower 200 + 5mm

**Contact pressure:** 500 + 5g

**Friction speed:** 30 + 2rpm

**Referential standard:** JIS P-8136-1994

**Power source:** 100/110VAC 50/60Hz 1A

**Outer dimensions:** 500 x 480 x 300mm

**Instrument weight:** 50kg