

Test Method: SATRA TM163

RESOTECH ABRASION RESISTANCE TEESTER(TABOR METHOD) MODEL NO. RESOTECH SCH-029



This method is intended to determine the abrasion resistance of a material or its surface coating. The method is mainly applicable to footwear upper and lining materials but can be used to assess any sheet material with a thickness of less than 5 mm.

Application

The **taber abrasion testing machine** is used to determine the wear resistance of materials and assess its wear resistance degree, like measuring its mass loss, thickness loss, and transmittance etc.

It's applicable for flat products, like suitcases, carpet, cardboard, clothing, glass, plastic coats, metal coating, paint, varnishes, decorative sheets, high pressure sheets, plastics, textiles, flexible floor mats, traffic paint, tile, anodizing layer, blankets, electronic components, decorative plates, wax, label, leather, dental materials, automobile interior decoration, resin, furniture, etc.

Principle

A circular specimen is rotated while two circular abrasive wheels roll and slip on its surface under a constant contact force. The abrasive wheels are free to rotate on an axis which is not aligned with the axis of rotation of the specimen. This produces an enhanced slipping and scuffing effect between the rolling abrasion wheels and the test specimen. The test is stopped after a standard number of revolutions and the damage to the test specimen is subjectively assessed. The mass loss and colour change of the test specimen are determined, if required. Three versions of the test are described.

Features:

- 1.Unique wear process. Place test sample on turntable and two abrasive wheel press on material to make material to wear.
- 2.Specimen turntable speed control options of both 60 rpm and 72 rpm.
- 3.Precision steel weights of 250 grams and 750 grams are furnished to provide standard wheel loads of 500 and 1000 grams. Weights are marked to show total load on each wheel. This marking includes the weight of the abrading arm (250 grams).
- 4.Taber abrasion tester Equip with vacuum cleaner to clear abrasive dusts Can test with different wear medium and accessories.

Specifications

Model	RESOTECH SCH-029
Test position	1
3 kinds of load	250g, 500g, 1000g
Wheel internal faces apart	52.4±1.0 mm
Turntable speed	60±2 rpm or 72 ±2rpm
Counter	LCD display 0-999999
Standards	ASTM D3884, ASTM D1175, ASTM D1044, ASTM D4060, TAPPI T476, ISO 9352, ISO 5470-1, JIS K7204, JIS A1453, JIS K6902, JIS L1096, JIS K6964, DIN 52347, DIN 53109, DIN 53754, DIN 53799, ISO 17076-1
Power supply	AC220V 50/60Hz
Dimensions (L x W x H)	44cm×37cm×27cm
Weight	20kg
Standard Accessories	250g weights 1set 750g weights 1set Paster pack of 5 Calibrase wheels CS-10 or H18 (Option) Power line 1pcs
Optional Accessories	Abrasive paper 150# Refacing discs S-11 Calibrase wheels: CS-32,CS-10F,CS-17,CS-5,CS-35,H-22,H-10,H-38