



# IPC-TM-650 TEST METHODS MANUAL

Number <b>2.4.27.1</b>	
Subject <b>Abrasion (Taber Method) Solder Mask and Conformal Coating</b>	
Date <b>1/95</b>	Revision <b>B</b>
Originating Task Group <b>Conformal Coating Task Group (5-33a)</b>	

**1.0 Scope** This method is designed to evaluate the resistance of solder mask or conformally coated surfaces to rubbing abrasion.

**2.0 Applicable Documents** None

**3.0 Test Specimen** An IPC Multipurpose Test Board, Number IPC-B-25 or any preproduction or production board 10.8 cm x 10.8 cm [4¼ in. x 4¼ in.] in size and coated with solder mask or conformal coating.

## 4.0 Apparatus

**4.1** Taber Abraser Model 5130

**4.2** 1000 gram load for each wheel

**4.3** CS-10 Calibrase wheels

## 5.0 Procedure

### 5.1 Preparation

**5.1.1** Drill or punch hole in middle of specimen for mounting specimen on Taber Abraser.

**5.1.2** Mount calibrase wheels and pressure load (1000 grams) on equipment.

**5.1.3** Clean calibrase wheels (CS-10) according to recommended procedures in Taber Abraser Manual.

**5.2 Test** Place sample on abraser and test specimen to the required number of cycles of abrasion.

**5.3 Evaluation** Examine the coated board for breakthrough to the conductive pattern or base material.

**6.0 Notes** Taber Abraser Model 5130, available from Tele-dyne Taber, 455 Bryant St., N. Tonawanda, NY 14120 or Pacific Scientific, Gardner Neotech Division, 2431 Linden Lane, Silver Springs, MD 20910 or equivalent.