



Designation: F 1842 – 9702

Standard Test Method for Determining Ink or Coating Adhesion on Plastic Substrates for Membrane Switch Applications¹

This standard is issued under the fixed designation F 1842; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method is based on existing Test Method D 3359, with modifications to make it suitable for plastic substrates and membrane switches.

1.2 Despite the problems associated with a tape test on plastic substrates, it is our belief that this is still one of the best ways to test ink and coating for adhesion for membrane switch applications. In writing this test method we are addressing several of the objections to the test method that could affect its precision and repeatability on plastic substrates.

1.3 These test methods cover whether the adhesion of coating or ink to a substrate is at an acceptable level. They do not distinguish between higher levels of adhesion, for which more sophisticated methods of measurement may be required.

NOTE 1—It should be recognized that differences in adherability of the ink or coating surface can affect the results obtained with inks or coatings having the same inherent adhesion.

1.4 In multi-coat systems adhesion failure may occur between coats, so that the adhesion of the coating system to the substrate is not determined.

1.5 This test method is specifically designed for measuring adhesion of inks and coatings (films) that have a thickness of 5 mil (125 microns) or less, on plastics such as polyester and polycarbonate.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This practice is under the jurisdiction of ASTM Committee F1 on Electronics and is the direct responsibility of Subcommittee F01.18 on Membrane Switches. Current edition approved Dec. 10, 1997; 2002. Published February 2002. Originally approved in 1997. Last previous edition approved in 1997 as F 1842-97.