

Standard Test Methods for Evaluating Primary Disposable Bag Integrity for Vacuum Cleaners¹

This standard is issued under the fixed designation F494; 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 These test methods cover the evaluation of the integrity of the primary disposable bag used for vacuum cleaners.

1.2 The intent of these test methods is to verify that the design of the primary disposable bag will perform satisfactorily for the consumer in a wide range of normal use conditions. The filtering capability of the disposable bag is not evaluated with the use of these test methods.

1.3 The following tests are included:

	Section
Installation and Removal	3
Workmanship	4
Durability	5
Seams and Joints	6

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 *This standard does not purport to address all of the safety problems, 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. Significance and Use

2.1 These test methods are useful for routine control, design of end-use products, and acceptance testing for conformance to specifications. Good workmanship, seams, and joints that remain strong over a wide range of atmospheric conditions and have the ability to withstand repeated cycles are necessary for satisfactory end use to the consumer.

TEST METHODS

3. Installation and Removal

3.1 *Scope*—These test methods provide guidelines for the installation and removal of the primary disposable bag.

¹ These test methods are under the jurisdiction of ASTM Committee F11 on Vacuum Cleaners and are the direct responsibility of Subcommittee F11.23 on Filtration.

Current edition approved April 1, 2016. Published April 2016. Originally approved in 1978. Last previous edition approved in 2011 as F494 – 05 (2011). DOI: 10.1520/F0494-05R16.

3.2 *Apparatus*—The vacuum cleaner model for which the primary disposable bag is intended.

3.3 *Test Specimens*—Test specimens shall be representative of the primary disposable bag system being tested.

3.4 *Procedure*—The primary disposable bag shall be installed in accordance with the instructions of the vacuum cleaner manufacturer.

3.4.1 Construction of the primary disposable bag shall be such that no holes or tears will be made when it is prepared for installation.

3.4.2 When installed or removed, in accordance with instructions, the primary disposable bag shall not be damaged or its function impaired.

3.5 *Report*—The report shall include any problems encountered during installation and removal of the primary disposable bag.

4. Workmanship

4.1 *Scope*—This test method provides a means of evaluating workmanship of the primary disposable bag.

4.2 *Test Specimens*—Test specimens shall be representative of the primary disposable bag system being tested.

4.3 *Procedure*—Inspect primary disposable bag for conformance to the following:

4.3.1 Complete sealing or fastening of all seams, tucks, joints, and attachments,

4.3.2 No tears, rips, holes, or other manufacturing type faults,

4.3.3 Printed instructions, when they appear, shall be clear and legible,

4.3.4 Dimensions shall agree with drawing specifications, or the primary disposable bag as defined by the vacuum cleaner manufacturer, and

4.3.5 If adhesives are used for seams and joints, there shall be no bleed through to adjacent plys or misplacements.

4.4 *Report*—The report shall include any defects in workmanship noted in the inspection in 4.3.