



Designation: D 5868 – 9501

## Standard Test Method for Lap Shear Adhesion for Fiber Reinforced Plastic (FRP) Bonding<sup>1</sup>

This standard is issued under the fixed designation D 5868; 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 describes a lap shear test for use in measuring the bonding characteristics of adhesives for joining fiber reinforced plastics to themselves and to metals. The method is applicable to random and fiber oriented FRP.

1.2 This test method is intended to complement Test Method D 1002 and extend the application to single-lap shear adhesive joints of fiber-reinforced plastic (FRP) adherends. This test method is useful for generating comparative apparent shear strength data for joints made from a number of FRP materials, providing a means by which FRP surface treatments may be compared.

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

1.4 *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:

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<sup>1</sup> This test method is under the jurisdiction of ASTM Committee D-14 on Adhesives and is the direct responsibility of Subcommittee D14.40 on Adhesives for Plastics. Current edition approved ~~Dec. 10, 1995~~; March 10, 1995; 2001. Published ~~February 1996~~; May 2001. Originally published as D 5868 - 95. Last previous edition D 5868 - 95.