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Committee D14 Adhesives

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Over 12,000 ASTM standards operate globally. Defined and set by us, they improve the lives of millions every day.

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Working across borders, disciplines, and industries we harness the expertise of over 30,000 members to create consensus and improve performance in manufacturing and materials, products and processes, systems and services.

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Meetings

ASTM Committee D14 meets twice a year, in April and October, with approximately 40 members attending three days of technical meetings.

Membership

ASTM welcomes all technical experts with a desire to work toward further development of standards for adhesives. Membership in Committee D14 provides the opportunity to:

- Network with adhesives professionals worldwide;
- Have direct input into the development of new and revised standards;
- Participate in informational webinars;
- Receive a free volume of the *Annual Book of ASTM Standards* (print or virtual volume);
- Enjoy discounts on all ASTM publications;
- Receive free subscriptions to *ASTM Standardization News* and *ASTM eNews*; and
- Benefit from reduced attendance fees at ASTM symposia and technical workshops.

The annual fee to be an informational or participating ASTM member is \$75 USD. Annual membership provides access to multiple technical committees at no additional cost.

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175 Technical Experts

ASTM International Committee D14 develops performance standards, practices, specifications and test methods for the adhesives industry. The committee has published more than 125 adhesive standards for metals, plastics and wood as well as materials used in compounding adhesives. These standards guide product design and help assure quality for items ranging from building materials to everyday products.

The committee also supports research on adhesives and the nature of adhesion. With more than 175 members, D14 has a diverse international membership, with technical experts from 10 countries across Africa, Asia, Europe and North America. D14 members are from companies such as 3M, BASF Corp., Dow Chemical Co., General Motors Corp., Georgia-Pacific and Weyerhaeuser.



125+ Published Standards

Committee D14 Standards

Committee D14 currently oversees more than 125 adhesives standards that are published in *Volume 15.06 of the Annual Book of ASTM Standards*, and has a number of standards under development. Some key D14 standards and work items are listed below.

D14 Subcommittees

- D14.03 Research
- D14.04 Terminology
- D14.10 Working Properties
- D14.30 Wood Adhesives
- D14.40 Adhesives for Plastics
- D14.60 Adhesive Material Classification System
- D14.70 Construction Adhesives
- D14.80 Metal Bonding Adhesives
- D14.90 Executive
- D14.91 Long Range Planning
- D14.99 ISO Activities

Working Properties

- ASTM D1084, Standard Test Methods for Viscosity of Adhesives
- ASTM D1144, Standard Practice for Determining Strength Development of Adhesive Bonds
- ASTM D6862, Standard Test Method for 90 Degree Peel Resistance of Adhesives

Wood

- ASTM D905, Standard Test Method for Strength Properties of Adhesive Bonds in Shear by Compression Loading
- ASTM D2559, Standard Specification for Adhesives for Structural Laminated Wood Products for Use Under Exterior (Wet Use) Exposure Conditions
- ASTM D7247, Standard Test Method for Evaluating the Shear Strength of Adhesive Bonds in Laminated Wood Products at Elevated Temperatures

Plastics

- ASTM D1828, Standard Practice for Atmospheric Exposure of Adhesive-Bonded Joints and Structures
- ASTM D2093, Standard Practice for Preparation of Surfaces of Plastics Prior to Adhesive Bonding

Material Classification

- ASTM D4800, Standard Guide for Classifying and Specifying Adhesives

- ASTM D6465, Standard Guide for Selecting Aerospace and General Purpose Adhesives and Sealants
- ASTM D7447, Standard Practice for Symbolizing Adhesive Applications

Construction

- ASTM D3930, Standard Specification for Adhesives for Wood-Based Materials for Construction of Manufactured Homes
- ASTM D3931, Standard Test Method for Determining Strength of Gap-Filling Adhesive Bonds in Shear by Compression Loading
- ASTM D4502, Standard Test Method for Heat and Moisture Resistance of Wood-Adhesive Joints
- ASTM D6004, Standard Test Method for Determining Adhesive Shear Strength of Carpet Adhesives
- ASTM D7446, Standard Specification for Structural Insulated Panel (SIP) Adhesives for Laminating Bonding Oriented Strand Board (OSB) to Rigid Cellular Polystyrene Thermal Insulation Core Materials

Metal Bonding

- ASTM D896, Standard Practice for Resistance of Adhesive Bonds to Chemical Reagents
- ASTM D897, Standard Test Method for Tensile Properties of Adhesive Bonds
- ASTM D1151, Standard Practice for Effect of Moisture and Temperature on Adhesive Bonds
- ASTM D1876, Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)
- ASTM D2651, Standard Guide for Preparation of Metal Surfaces for Adhesive Bonding

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