



Designation: D3930 – 08 (Reapproved 2023)

Standard Specification for
Adhesives for Wood-Based Materials for Construction of
Manufactured Homes¹

This standard is issued under the fixed designation D3930; 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.

INTRODUCTION

This specification provides a standard for measuring and evaluating the performance of adhesives that will be used in joints of wood-based materials in constructing manufactured homes. This specification has two parts: Part I contains the requirements necessary for an adhesive to conform to this specification; and Part II provides test methods by which the performance of the adhesives will be measured. A classification system is provided that groups adhesives according to resistance to deformation under load, resistance to moisture, and gap-filling ability. Minimum test values have been specified for certain properties of durability, while other property requirements are left open-ended. The test methods used to obtain these values reflect adverse exposure and stress conditions that exist during the construction, transit, and use of manufactured homes. By using values published from these prescribed test methods, the design engineer can select an adhesive that best meets the requirements of a specific adhesive application.

The test methods used in this specification were developed predominantly from existing ASTM standards, while others came from standards that have been generally accepted for years. Some test methods were more recently developed. In most instances, only parts of these standards have been used in this specification. Since no precision and bias statements are available from the original test methods, none can be made for this specification at this time.

PART I— REQUIREMENTS

1. Scope

1.1 This specification provides the means to measure and evaluate the performance of adhesives for structural or semi-structural bonding of wood-to-wood in manufactured homes. Wood as used in this specification includes lumber, plywood, particleboard, gypsum board, and all materials having wood-based surfaces at the bondline. This specification does not cover other adhesives used in manufactured homes such as adhesives for carpet, floor tile, ceramic fixtures, plastic laminates, trim and millwork, and similar nonstructural applications.

1.1.1 The performance of the adhesives is measured in the following tests:

¹ This specification is under the jurisdiction of ASTM Committee D14 on Adhesives and is the direct responsibility of Subcommittee D14.70 on Construction Adhesives.

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1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*