



Designation: D3693 – 02 (Reapproved 2021)

Standard Specification for Labeled Length per Holder of Sewing Thread¹

This standard is issued under the fixed designation D3693; 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 specification covers requirements for the labeled lengths of sewing threads of all materials.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D123 Terminology Relating to Textiles

D204 Test Methods for Sewing Threads

D3888 Terminology for Yarn Spinning Systems

D3990 Terminology Relating to Fabric Defects

D4849 Terminology Related to Yarns and Fibers

3. Terminology

3.1 *Definitions:*

3.1.1 For definitions of textile terms used in this specification, thread holder and sewing thread, refer to Terminology D4849.

3.1.2 For other textile terms used in this specification, refer to Terminology standards D123, D3888, D3990, and D4849.

4. Requirements

4.1 The average for all holders shall equal or exceed the labeled length.

¹ This specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.58 on Yarns and Fibers.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

4.2 For home sewing spools, the observed length of individual holders shall equal or exceed the percent of labeled length shown in Table 1.

4.3 For ready-made bobbins, the observed length of individual holders shall equal or exceed 97 % of the labeled length.

4.4 For all other holders, when the sample size is nine or fewer, the observed length of individual holders shall equal or exceed 95 % of the labeled length. For a sample size of ten or more the observed length of one holder may be less than 95 % of the labeled length.

4.5 If the initial sample consists of fewer than ten holders and the average length measured fails to conform to the requirements of 4.1 but meets those of 4.2, 4.3, or 4.4, as appropriate, take additional specimens from the lot and test until a total of ten have been measured. Reevaluate the results of these ten specimens against the requirements of 4.1, 4.2, 4.3, or 4.4, as appropriate. If the new average conforms with the requirements of 4.1 and the individual holders with the requirements of 4.2, 4.3, or 4.4, as appropriate, consider the lot acceptable.

4.5.1 If the original lot consists of fewer than ten holders, the supplementary sample will be one half of the holders remaining in the lot following the initial sampling.

5. Sampling

5.1 *Lot*—Unless otherwise agreed upon between the purchaser and supplier, a lot shall be a discrete manufacturing unit or a billed quantity of a specific color, ticket size, and length put-up of thread. A billed quantity can consist of a single unit, a carton, box, or multiple units of either, containing a number of holders of thread.

NOTE 1—An adequate specification or other agreement between the purchaser and the supplier requires taking into account variability between shipping units, between packages, or ends within shipping unit, and between specimens from a single package so as to provide a sampling plan with a meaningful producer's risk, user's risk, acceptable quality level, and limiting quality level.

5.2 *Sample*—Unless otherwise agreed upon between the purchaser and supplier, and except for ready-made bobbins, the sample, chosen at random, shall be 10 % of the holders in the lot, with a minimum of one holder, up to a maximum of ten holders. The lot sample and laboratory sample are synonymous.