



Designation: D 3772 – 97

Standard Specification for Rubber Finger Cots¹

This standard is issued under the fixed designation D 3772; 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 the requirements for finger cots made from rubber latex. The purpose of this specification is to obtain consistent performance among products produced in various locations or at various times in the same location.

1.2 This specification does not cover the safe and proper use of finger cots or products of special construction for special use.

1.3 The values stated in SI units are to be regarded as the standard.

2. Referenced Documents

2.1 ASTM Standards:

D 412 Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers—Tension²

D 573 Test Method for Rubber—Deterioration in an Air Oven²

D 865 Test Method for Rubber—Deterioration by Heating in Air (Test Tube Enclosure)²

D 1076 Specification for Rubber—Concentrated, Ammonia Preserved, Creamed, and Centrifuged Natural Latex²

D 3767 Practice for Rubber—Measurement of Dimensions²

2.2 Other Documents:

ISO 2859 Sampling Procedures and Tables for Inspection by Attributes³

Code of Federal Regulations, Title 21—Food and Drug Administration, Part 177⁴

3. Classification

3.1 Types:

3.1.1 Type 1—Rolled.

3.1.2 Type 2—Flat.

3.2 Sizes—The sizes covered are small, medium, large, and extra large.

4. Ordering Information

4.1 Orders for material under this specification shall include the following information:

4.1.1 Reference to this ASTM designation (D 3772) and year of issue,

4.1.2 Type, and

4.1.3 Size.

5. Materials and Manufacture

5.1 Finger cots shall be manufactured from good-quality latex conforming to Specification D 1076.

5.2 Finger cots shall be free of embedded grit or discoloration, but may be transparent, opaque, or colored.

5.3 Finger cots and any dressing materials applied to them shall not liberate substances known to be toxic or otherwise harmful under normal conditions of use. Any dressing or compounding materials shall not have a deleterious effect on the rubber and shall be permitted by the Code of Federal Regulations, Title 21, Section 172.2600 on Rubber Articles Intended for Repeated Use, that lists materials safe for use in food packaging. Other materials may be used if their safety and efficacy have been established previously.

NOTE 1—For guidance, it is recommended that CFR, Title 21, Part 177 be used. Other materials may be used if their safety and efficiency have been established previously.

6. Design

6.1 *Rim*—The open end of the finger cot shall terminate in an integral rim.

6.2 *Dimensions*—The length shall be 70 ± 5 mm and the thickness shall be 0.09 ± 0.03 mm. The width of the various sizes shall be as follows: small, 24 ± 2 mm; medium, 28 ± 2 mm; large, 30 ± 2 mm; extra large, 34.5 ± 2.5 mm.

6.3 *Sampling*—Take ten finger cots at random from each lot. The number of cots in a lot shall not exceed 144 000. If one or more cots fail to meet the requirements in accordance with 6.1 or 6.2, the lot may be rejected or retested (see Section 8).

NOTE 2—This requirement corresponds approximately to an accepted quality level (AQL) of 2.5 and inspection level S-1.

6.4 *Testing*—Measure the length of the finger cot to the nearest 1 mm. Measure the width to the nearest 0.5 mm at a distance at least 5 mm from the ends. Measure the thickness to the nearest 0.002 mm at a distance about 5 mm from the open

¹ This specification is under the jurisdiction of ASTM Committee D-11 on Rubber and is the direct responsibility of Subcommittee D11.40 on Consumer Rubber Products.

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² *Annual Book of ASTM Standards*, Vol 09.01.

³ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

⁴ Available from the Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.