

**INCH-POUND**

A-A-52095A  
June 21, 2000

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**Supersedes**  
A-A-52095  
March 15, 1991

## COMMERCIAL ITEM DESCRIPTION

### THREAD, POLYESTER TEXTURED

The General Services Administration has authorized the use of this commercial item description in preference to Federal Specification MIL-T- 44193

**1. SCOPE.** This commercial item description covers the requirements for textured polyester thread intended for use in the fabrication of T-shirts, underwear, stretchable operations, and other knitted, lightweight, or non-woven end item applications.

**2. CLASSIFICATION.** The thread shall be in the following sizes:

2.1 Size.

Tex

18

24

35

45

50

70

105

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn.: DSCP-COCT, 700 Robbins Ave., Philadelphia PA., 19111-5092.

AMSC N/A

FSC 8310

**DISTRIBUTION STATEMENT A.** *Approved for public release; distribution is unlimited*

**A-A—52095A****3. SALIENT CHARACTERISTICS**

3.1 Description. The thread shall be textured continuous multifilament polyester (polyethylene glycol terephthalate). The thread shall be a textured strand held together by twist. The thread shall average not more than one full thread knot per 3,000 yards. No chemical finishes shall be applied except those necessary to provide good sewing quality and which are commonly used on commercial threads.

3.2 Physical requirements of thread. The thread shall conform to the physical requirements specified in Table I.

TABLE I Physical requirements

<u>Tex</u>	<u>Breaking Strength lbs. min.</u>	<u>Elongation % max.</u>	<u>Test Method</u>
18	1.4	35	ASTM-D-204 <u>1/ 2/</u>
24	1.9	35	ASTM-D-204 <u>1/ 2/</u>
35	2.5	35	ASTM-D-204 <u>1/ 2/</u>
45	3.2	35	ASTM-D-204 <u>1/ 2/</u>
50	3.9	35	ASTM-D-204 <u>1/ 2/</u>
70	5.8	35	ASTM-D-204 <u>1/ 2/</u>
105	6.9	35	ASTM-D-204 <u>1/ 2/</u>

1/ Testing speed shall be  $12 \pm 0.5$  in./min., and a 10 inch gauge length shall be used.

2/ Five determinations per sample unit.

3.3 Color. The color shall be set forth in the contract or purchase order, and shall match the standard sample, or be a good (good is defined as a perceptible not appreciable difference in color) match to the standard sample of the base cloth of the end item if no standard sample is specified, when viewed under filtered tungsten lamps that approximate artificial daylight and that have a correlated color temperature of  $7500 \pm 200$  K with illumination of  $100 \pm 20$  foot candles, and shall be a good match to the standard sample under incandescent lamplight at  $2300 \pm 200$  K., or as.

3.4 Colorfastness. Unless otherwise specified in the end item specification or set forth in the contract, the thread shall show “good” fastness to laundering (after 3 cycles) in accordance with ASTM D 204, except that the specimens shall be dried after each of the 3 laundering cycles and the color transfer cloth evaluation shall not apply.

**4. REGULATORY REQUIREMENTS.**

4.1 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible in accordance with paragraph 23.403 of the Federal Acquisition Regulation Act (FAR), provided that the material meets or exceeds the operational and maintenance requirements and promotes economically advantageous life cycle costs.

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**5. QUALITY ASSURANCE PROVISIONS**

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description and conform to the producer’s own drawings, specifications, standards and quality assurance practices. The Government reserves the right to require proof of such conformance.

5.2 Preservation, packing and marking. The preservation, packing and marking shall be as specified in the contract or order.

**6. NOTES**

6.1 Sources of Nongovernment Documents.

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM-D-204 - Standard Test Methods For Sewing Threads.

(Applications for copies should be addressed to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19426-2959.)

THE COLOR ASSOCIATION OF THE UNITED STATES, INC.

Standard Color Card of America

6.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this document.
- b. Size and color required (see 2.1), and (3.3).
- c. Selection of packaging, preservation, and marking (see 5.2)

**MILITARY INTREST:**

Custodians:

Army- GL  
Navy – NU  
Air Force – 11

Review Activities

Army- MD  
Navy - MC  
Air Force – 82, 99

**CIVIL AGENCY CORDINATING ACTIVITY:**

GSA-FSS

Preparing Activity:

DLA-CT

Project 8310-0215