

A-A-1492B
 November 16, 1939
 SUPERSEDING
 A-A-1492A
 August 10, 1962

COMMERCIAL ITEM DESCRIPTION

TAPE, GUMMED, PAPER, PLAIN

The General Services Administration, Federal Supply Service, has authorized the use of this Commercial Item Description.

This description covers single ply, nonstrippable paper tape intended for use in general sealing of cartons and fiberboard boxes, wrapping of packages, and banding of paper and paper products. Grade A - light duty; grade B - medium duty; grade C - heavy duty. Metric equivalents appear in parentheses following U.S. units, where applicable. In disputed situations the U.S. units shall be the controlling standard.

1. SALIENT CHARACTERISTICS:

The paper used in fabricating the tape shall be kraft paper.

The tape shall be furnished in roll form with dimensions as specified, $\pm 1/16$ inch (± 1.58 mm) wide, and ± 1.5 percent long. The tape shall be evenly and tightly wound.

The finished tape shall comply with the physical properties listed in table I.

<u>Requirements</u>	<u>TABLE I. Physical Properties</u>			<u>Test Method</u>
	<u>Grade</u>			
	<u>A</u>	<u>B</u>	<u>C</u>	
Tensile strength, lb./In.				
Width, MD, min. avg.	19	38	54	ASTM D 828
Tearing resistance, <u>l</u> / grams,				
MD, min. avg.	43	94	170	TAPPI T414
CD, min. avg.	55	114	188	

l/ The requirement does not apply to tapes less than 2.5 inches (63.5 mm) wide.

The adhesive used shall not have an offensive odor and shall be nontoxic. The adhesive shall be capable of being quickly activated by water, and shall cover the entire area of the side to which it is applied. The finished tape shall comply with the following adhesive qualities:

FIG. 3132

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Adhesiveness test.

Testing conditions. This test shall be performed in an atmosphere maintained at standard conditions as specified in TAPPI method T 402. The test paper shall be conditioned to equilibrium with these conditions prior to testing. The tape specimens shall not be conditioned prior to testing.

Test. Cut four (4) 12" X 6" (304.8 mm X 152.4 mm) specimens of standard reference material, as specified in ASTM D 3654^{2/}, two each in machine direction (MD) and cross direction (CD). Cut and completely moisten 4 tape test specimens 12 inches (304.8 mm) long by the full tape width, utilizing an automatic dispenser equivalent to CID A-A-798. Fold over one inch (25.4 mm) of the tape end so that the adhesive sides are together to form a one inch (25.4 mm) tab to facilitate tape removal efforts. At the end of 15 seconds, apply each tape specimen to the test paper, 2 in MD and 2 in CD of the standard reference material. Roll the tape once in each direction with a soft rubber covered hinged iron roller, weighing 16 pounds (7.26 kg), 3-1/2 inches (89 mm) wide and having an overall diameter of 5 inches (127 mm). Within 5 seconds after the tape is applied on the paper, gently lift the tab to expose not more than 3 inches (76.2 mm) of the tape (one MD and one CD) and observe the tackiness of the gum. The gum shall show a pronounced tackiness. (The portion of the specimens lifted to observe tackiness shall not be reapplied.) After twenty-four hours elapsed time, determine the ease of removal of the specimens (2 MD and 2 CD). The adhesive quality shall be considered satisfactory if the tape cannot be removed without fiber separation of either the tape or the standard reference material over 90% of the taped area.

Core requirements: The tape shall be evenly wound on a core with an inner core diameter of at least 1/2 inch.

Workmanship: The tape shall be clean and free from pinholes, tears, cuts, sharp creases, wrinkles, and folds. The tape shall be clearly cut without nicks or ragged edges and shall be free from any other defects which may adversely affect its utility for the purpose intended.

^{2/} Mosinee Paper Corporation, Mosinee, W1. 54455, telephone (715) 693-2111. Mosinee paper, 767, 120# basis wt., neutral ph paper may be used as a substitute for the standard reference material 1810, specified in ASTM D 3654.

- .. QUALITY ASSURANCE: Each lot or tape shall be inspected for conformance to the requirements of this Commercial Item Description. For inspection purposes, a lot shall consist of all tape manufactured under the same conditions. Sampling and acceptance shall be in accordance with MIL-STD-105.

Physical Properties and tests - Inspection Level S-2 with an Acceptable Quality Level (AQL) of 4.0 percent defective. The sample unit shall be one roll.

Visual and Dimensional Characteristics - Inspection Level S-2 with an Acceptable Quality Level (AQL) of 4.0 percent defective. The sample unit shall be one roll.

Packaging, Packing, Marking, and Palletization - Inspection Level S-2 with an Acceptable Quality Level (AQL) of 4.0 percent defective. The sample unit shall be one fully prepared shipping container.

3. PACKAGING, PACKING, LABELING, MARKING, AND PALLETIZATION: Packaging, packing, labeling, marking and, palletization shall be as specified in the contract or order.

4. REFERENCED DOCUMENTS:
The issue of each document in effect on the date of the solicitation shall be used to determine compliance with these requirements.

Commercial Item Description A-A-798 is available from:

General Services Administration Business Service Centers in Boston, MA; New York, NY; Washington, DC; Atlanta, GA; Chicago, IL; Kansas City, MO; Fort Worth, TX; Denver, CO; San Francisco, CA; and Auburn, WA.

TAPPI test methods are available from:

Technical Association of the Pulp and Paper Industry
Technology Park/Atlanta, P.O. Box 105113
Atlanta, GA 30348
(404) 446-1400

ASTM test methods are available from:

American Society for Testing and Materials
1916 Race Street
Philadelphia, PA 19103

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MIL-STD-105 is available from:

Naval Publications and Forms Center
5801 Tabor Avenue
Philadelphia, PA 19120

5. ORDERING DATA:

Ordering activities should specify the following:

- a. Grade designation
- b. Length
- c. Width
- d. Specific packaging, packing, labeling, marking and, palletization requirements.

MILITARY INTERESTS

USER ACTIVITIES

Army - ME
Navy - SA, CG, SH

PREPARING ACTIVITY

GSA - FSS