

[METRIC]

A-A-1989B  
August 19, 1993  
SUPERSEDING  
A-A-1989A  
June 21, 1982

COMMERCIAL ITEM DESCRIPTION  
CELLOPHANE

The General Services Administration has authorized the use of this commercial item description for all Federal agencies.

1. SCOPE: This description covers cellophane, consisting of regenerated cellulose coated on both sides with cellulose nitrate. The cellophane is used for wrapping wet products and frozen foods where moisture protection is required and packages are closed by heat seals.

2. SALIENT CHARACTERISTICS:

A. Construction. The film shall be wound on a nominal 76 mm (3") inside diameter core. The film shall be secured to prevent unwinding during storage and transit. The material furnished under this description shall comply with the requirements of the Federal Food, Drug and Cosmetic Act.

B. Physical Requirements. The film shall be heat sealable. The heat seal shall not be less than 150 grams per inch when tested in accordance with paragraph (3D). There shall be no evidence of sloughing of the coating from the base sheet, when tested as specified in paragraph (3C). The maximum water vapor permeability shall be 3.0 grams per 645.2 sq cm per 24 hours when tested in accordance with ASTM E 96 or ASTM F 372.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Federal Supply Service, 26 Federal Plaza, New York N.Y. 10278  
ATTN: Engineering Branch (2FYEE).

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C. Dimensions. The tolerance or thickness shall be  $\pm 0.0025$  mm ( $\pm 0.0001$ " ). The length of the roll shall be not less than as specified (see 7a). The width of the roll shall be as specified with a tolerance of  $\pm 3.2$  mm ( $\pm 1/8$ " ) for the width (see 7a).

D. Workmanship. The film shall be free from pinholes, pits warpage, cracks blisters, and other defects which may affect appearance or serviceability.

### 3. QUALITY ASSURANCE PROVISIONS:

A. Responsibility for Inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the Commercial Item Description, where such inspection are deemed necessary to assure that supplies and services conform to prescribed requirements.

B. Sampling. Samples shall be selected for inspection in accordance with MIL-STD-105 using the plans described in Table I. A lot shall consist of a number of sample units manufactured by the same process form the same components at the same time. Random samples shall be drawn from each lot for the end item inspection. Unless otherwise specified, every lot shall be tested. Each lot shall be tested for heat-seal strength, water vapor permeability, and sloughing of the coating.

Table I.

Inspection	Inspection Level	AQL (%) defective	Sample Unit	Requirements Paragraph/s
Construction	S-1	1.5	1 roll	2A
Physical requirements	S-1	1.5	1 roll	2B
Dimensions	S-1	1.5	1 roll	2C
Workmanship	S-1	1.5	1 roll	2D
Packaging, Packing & Marking	S-1	1.5	1 shipping container	5

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C. Testing. Samples shall be immersed for 1-1/2 hours in distilled water at 45° Celsius (113° Fahrenheit). The sample shall be washed with water containing a wetting agent. The film shall be rubbed between the fingers and examined for evidence of sloughing or separation.

D. The Heat Sealed strength. Sample Size: 5" TD, 4" MD

Set sealer\* at 275 °F, 6 psi, 0.5 sec., and allow to warm up at least ten minutes. Depress sealing bar several times to preheat lower bar. Immediately place sample between the jaws so that the 5" dimension is parallel to the front of the jaws, with sample in the center of the sealing bar. Depress the sealing bar. Proceed with the next sample. Let the samples cool for at least 15 minutes. From each 5" x 4" samples, cut 2 one-inch strips, and use each strip to test the Seal Strength (grams/inch) by Suter tester or any other commercially acceptable device.

\* Only the upper bar is heated. Both bars are flat.

4. REGULATORY REQUIREMENTS: The offeror/contractor is encouraged to use recovered materials in accordance with Paragraph 23.403 of the Federal Acquisition Regulation.

5. PACKAGING, PACKING MARKING: Packaging, packing, marking shall be as specified in the contract or purchase order.

6. REFERENCED DOCUMENTS: The issue of the referenced documents in effect on the date of the solicitation for offers or request for proposals shall be used to determine conformance with the requirements of this Commercial Item Description.

A. Federal Regulations:

Federal Acquisition Regulation. Paragraph 23.403

21 CFR 121 - Federal Food, Drug and Cosmetic Act and Regulations Promulgated There under.

Copies of the Federal Food, Drug and Cosmetic Act, CFR Title, 21, Part 110, Sec. 35 and 37 are available from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Copies of the U.S. Code may be obtained through the congressional Sales Office, U.S. Government Printing Office, Washington D.C. 20402.

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B. Military Standard:

MIL-STD-105 - Sampling Procedures and Tables for Inspection  
by Attributes

MIL-STD-105 is available from Naval Publication and Forms Center; 5801  
Labor Avenue; Philadelphia, PA 19120.

C. American Society for Testing and Materials (ASTM):

ASTM E 96 - Standard Test Methods for Water Vapor Transmission  
of Materials.

ASTM F 372 - Standard Test Method for Water Vapor Transmission  
Rate of Flexible Barrier Material Using a Infrared  
Detection Technique.

ASTM standard test methods can be obtained from the American Society  
for Testing Materials; 1916 Race Street; Philadelphia, PA 19103.

7. ORDERING DATA:

Purchaser shall specify the following in the contract or purchase  
order.

- (a) The length, width and thickness of the cellophane.
- (b) Packaging, packing, marking requirements.

MILITARY INTERESTS

PREPARING ACTIVITY:

Military Coordinating Activity

GSA - FSS

Army - GL

Custodians

Army - GL

Air Force - 69

Review Activities

Army - MD

Air Force - 99