

[METRIC]

A-A-1588D

July 24, 1997

SUPERSEDING

A-A-1588C

January 23, 1990

## COMMERCIAL ITEM DESCRIPTION

### SACK, SHIPPING, PAPER (CUSHIONED WITH CLOSED CELL PLASTIC FILM)

This proposed commercial item description has been approved by the General Services Administration.

1. SCOPE. This description covers paper sacks that are cushioned with a closed cell plastic film liner. They are intended for shipping items weighing not more than 4.5 kg (10 pounds).

#### 2. SALIENT CHARACTERISTICS.

2.1. Construction. Sacks shall be fabricated from a composite material consisting of kraft paper bonded to closed cell plastic film cushioning material. The composite material shall have a thickness of not less than 3.3 mm (0.131") over the entire area. The sacks shall be fabricated so that the kraft paper forms the outside surface of the sack. The weight and test volume for each size sack shall be as specified in Table I. The fabricated sacks shall pass the impact resistance test and the creep test. Unless otherwise specified, sack opening shall be on the short side.

2.1.1. Sealing flap. The open end of the sack shall be provided with an adhesive sealing flap extending the entire width of the sack. The sealing flap shall have a strip of pressure sensitive adhesive, protected by a liner. The liner shall extend across the width of the flap to within 12.7 mm (1/2") of the edge on each side. Alternatively, the liner may extend up to 12.7 mm (1/2") over the edge of the flap on each side.

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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2.2. Dimensions. Dimensions of the sacks shall be outside measurements, exclusive of the flap, expressed as width by length. Dimensions shall be as specified in Table I below with a tolerance of  $\pm 6.4\text{mm}$  ( $\pm 1/4"$ ), unless otherwise specified.

TABLE I

Commercial size	Nominal size	Test load
000	10 x 17 cm (4" x 7")	0.14 kg (0.3 lb)
0	15 x 22 cm (6" x 9")	0.36 kg (0.8 lb)
1	18 x 27 cm (7-1/4" x 11")	0.64 kg (1.4 lb)
2	21 x 27 cm (8-1/2" x 11")	0.91 kg (2.0 lb)
3	21 x 34 cm (8-1/2" x 13-1/2")	1.08 kg (2.4 lb)
4	24 x 34 cm (9-1/2" x 13-1/2")	1.36 kg (3.0 lb)
5	26 x 38 cm (10-1/2" x 15")	1.91 kg (4.2 lb)
6	31 x 45 cm (12-1/2" x 18")	3.27 kg (7.2 lb)
7	36 x 48 cm (14-1/4" x 19")	4.54 kg (10.0 lb)

2.3. Workmanship. Sacks shall be uniformly constructed and free from holes, tears, cuts, splits, or other defects which might impair their usefulness.

### 3. REGULATORY REQUIREMENTS.

3.1. Certification. The contractor shall certify that the kraft paper used in the manufacture of this item contains a minimum of 5% Post Consumer Material (PCM), in accordance with Title 40 of the Code of Federal Regulations Part 247, Comprehensive Guideline for Procurement of Products Containing Recovered Materials; Final Rule. The Government reserves the right to require proof of such conformance prior to first delivery, and thereafter as may be otherwise provided for under the provisions of the contract.

### 4. QUALITY ASSURANCE.

4.1. Product conformance. The product provided shall meet the salient characteristics of this commercial item description, conform to producer's own drawings, specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

4.2. Impact resistance test. Impact resistance shall be verified using the test load for each size specified in from Table I. The test load for Sizes 000, 0, 1, 2 & 3 shall consist of dry, unpopped popcorn. The test load for Sizes 4, 5, 6 & 7 shall consist of bond paper, writing paper, or

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paperback books. For each size sack, the test load shall weigh within  $\pm 0.045$  kg ( $\pm 0.1$  lbs) of the weight specified in Table I. The popcorn shall be placed in plastic bottles or vials which will fit in the sack being tested. The test load may be distributed among more than 1 bottle or vial. Cap the bottles or vials. The paper or paperback books may be wrapped in paper or plastic for ease of insertion and removal from the sack. Place the appropriate test load into the sack selected for this test. Remove the liner from the flap, close and seal the sack. Drop each sack 6 times from a height of 91 cm (36") onto a hard, unyielding surface such as uncarpeted concrete. The sack shall be dropped once on each face and once on each side. If any tears more than 1.3 cm (1/2") long, extending from the exterior through to the interior of the sack, are present at the conclusion of the impact resistance, the sack does not pass the impact resistance test.

4.3. Creep test. Four test specimens, each  $7.62 \pm 0.317$  cm ( $3" \pm 1/8"$ ) square, shall be cut from each sack selected for the creep test. Two specimens shall be cut from the front face of the sack, and 2 from the rear face of the sack. The specimens shall be evenly stacked on a piece of glass approximately 8.89 cm ( $3-1/2"$ ) square. The bottom specimen shall be placed bubble side up, the second specimen bubble side down, the third specimen bubble side up, and the top specimen bubble side down. A second 8.89 cm ( $3-1/2"$ ) square piece of glass shall be placed on top of the stack and a weight sufficient to exert a pressure of  $6.89 \pm 0.689$  kPascal ( $1.0 \pm 0.1$  psi) on the test specimens shall be placed on the top piece of glass. After  $60 \pm 5$  minutes, the vertical distance between the glass plates shall be measured at each of the 4 corners of the stack with an instrument capable of measuring to 0.001 mm or (0.001"). The measurements shall be taken carefully so as not to disturb the stack. The average of these 4 measurements shall be recorded as the initial stack thickness. The initial stack thickness divided by 4 shall be recorded as the thickness of the composite material. The weight shall be kept on the stack for a total of  $168 \pm 2$  hours, then the distance between the glass plates shall be measured and averaged in the same way as was done for the initial stack thickness. This measurement shall be recorded as the final stack thickness. The final stack thickness shall be not less than 80 percent of the initial stack thickness.

4.4. Label adhesion test. A mailing label with pressure sensitive adhesive shall be applied to the front face of each sack selected for the test. The sack and label shall be placed in a horizontal position for  $168 \pm 2$  hours. Then, the label shall be removed from the sack. If the label remains so firmly attached to the sack that the label tears when it is removed from the sack, the sack passes the label adhesion

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test. If the label can be completely removed from the sack without tearing, the adhesive shall be examined to determine the extent of fiber separation from the surface of the sack. If 50% or more of the adhesive is covered with fibers from the sack, the sack passes the label adhesion test. If less than 50% of the adhesive is covered with fibers from the sack, the sack is defective.

5. PACKAGING, PACKING AND MARKING. Packing, packing and 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.

6.1. CFR, Title 40, Code of Federal Regulations, Protection of the Environment, Part 247. Copies may be purchased with a VISA, Master Card or prepaid check through: Government Printing Office, Washington DC; Phone 202-783-3238. When ordering ask for: Title 40, Parts 190-250; Stock Number: 869-013-00-146-0.

7. NOTES:

7.1. Ordering data. Purchasers shall specify the following in the contract or purchase order.

7.1.1. Size, as listed in Table I.

7.1.2. Packaging, packing and marking required.

7.2. List of NSNs:

8105-00-117-9860  
8105-00-117-9866  
8105-00-117-9869  
8105-00-117-9870  
8105-00-117-9872  
8105-00-117-9879  
8105-00-117-9881  
8105-00-117-9886

MILITARY INTERESTS:

No official DOD interest in this  
Commercial Item Description  
has been registered.

PREPARING ACTIVITY:

GSA-FSS