

[INCH-POUND]
A-A-2681
February 19, 1991

COMMERCIAL ITEM DESCRIPTION

**PLASTIC SHEET, PRESSURE SENSITIVE
ADHESIVE COATED, PAPER-BACKED**

The General Services Administration has authorized the use of this commercial item description in lieu of Federal Specification L-P-528...

1. SCOPE AND CLASSIFICATION

1.1 Scope. This commercial item description covers cellulose acetate and polyester plastic sheets having an adhesive paper-backing.

1.2 Classification. The plastic sheet covered by this specification shall be the following types, classes and sizes, as specified:

Type I - Cellulose acetate.
Class 1 - Polished finish.
Class 2 - Matte finish.

Type II - Polyethylene terephthalate.

Number	Sheet sizes	
	Length (inches)	Width (inches)
1	4	3
2	8	6
3	11-3/8	9
4	12 (1/)	10 (1/)

1/ Type I, class 2 shall be furnished in this size only

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: **General Services Administration, Engineering Group (7FXEE), 819 Taylor St., Fort Worth, TX 76102**

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Number	Roll sizes	
	Length (feet)	Width (inches)
5	50	21 (Type I, class 1 only)
6	50	26 (Type II only)

2. APPLICABLE DOCUMENTS

2.1 The documents referenced in this commercial item description shall be the issues in effect on the date of the invitation for bids or request for proposal unless otherwise specified. These documents form a part of this commercial item description to the extent specified. In the event of a conflict between this commercial item description and a document referenced herein, this commercial item description shall take precedence.

Federal Specifications:

- L-P-377 - Plastic Sheet and Strip, Polyester.
- L-P-504 - Plastic Sheet and Film, Cellulose Acetate.

Federal Standard:

- FED-STD-376 - Preferred Metric Units For General Use By The Federal Government.

Copies of Federal specifications and standards are available from the General Services Administration Business Service Centers in Boston, MA; New York, NY; Philadelphia, PA; Washington, DC; Atlanta, GA; Chicago, IL; Kansas City, MO; Fort Worth, TX; Denver, CO; San Francisco, CA; Los Angeles, CA; and Seattle, WA.

Military Standards:

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

Copies of military standards may be obtained from Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

ASTM Standards:

- D 883 - Definitions of Terms Relating to Plastics.
- D 3330 - Standard Test Methods for Peel Adhesion of Pressure-Sensitive Tape at 180° Angle
- E 29 - Standard Practice For Using Digits In Test Data To Determine Conformance With Specifications.
- E 171 - Standard Specification For Standard Atmosphere for Conditioning and Testing Materials

Application for copies should be addressed to ASTM, 1916 Race Street, Philadelphia, PA 19103.

3. SALIENT CHARACTERISTICS

3.1 Material.

3.1.1 Plastic sheet. Type I material shall be transparent cellulose acetate and Type II materials shall be polyethylene terephthalate conforming to Type I of L-P-504 and Type I of L-P-377, respectively, see 4.6.2. The thickness of the Type I cellulose acetate (uncoated) shall be a minimum of 0.0045 inch and a maximum of 0.0065 inch (see 4.6.4). The thickness of the Type II polyethylene terephthalate (uncoated) shall be a minimum of 0.0016 inch and a maximum of 0.0024 inch (see 4.6.4).

3.1.2 Adhesive coating. The underside of the matte surface and one side of the polished surface of the plastic sheet, as applicable, shall be evenly and uniformly coated with a minimum of 0.001 inch thick (dry) film of a pressure-sensitive adhesive. The adhesive shall have suitable characteristics of flexibility and tackiness for the purpose intended. The adhesive shall require no moisture, heat, or other preparation prior to use of the finished plastic sheet to develop manual pressure-sensitive adhesion.

3.1.3 Release paper (paper backing). The adhesive side of the plastic sheet shall be covered with a suitable release paper (paper backing). Removal of the release paper at the time of use shall not detach the adhesive nor shall it in any way interfere with the function of the plastic sheet. The paper shall show no fiber separation or detachment from the plastic sheet.

3.2 Sheet dimensions. The sheet shall be furnished in the sizes as specified (see 1.2 and 6.2), unless otherwise specified in the contract or order. The tolerance of length and width shall be plus or minus 1/16 inch (see 4.6.3). Adjacent edges of the sheet shall intersect at a 90 degree angle plus or minus 2 degrees.

3.3 Finish and color. The uncoated surface of type I, class 2, shall have a matte finish. The uncoated surface of type I, class 1 and type II shall have a polished finish. Unless otherwise specified, all types and classes shall be colorless (see 6.2).

3.4 Surface characteristics. The matte surface of the plastic sheet shall be capable of accepting the characteristics listed in 3.4.1 and 3.4.2.

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3.4.1 Penciling and erasing. A pencil line shall be erasable without causing ghosting or smudging or any appreciable change of color of the erased surface when tested as specified in 4.6.5.1.

3.4.2 Inking and erasing. Inked lines shall show no appreciable spreading, feathering, ragged edges or skips, upon being drawn over a fresh or an erased area when tested as specified in 4.6.5.2.

3.5 Adhesive bond. The adhesive shall have a minimum peel of 1 lb./in. width when tested as specified in 4.6.6.

3.6 Back printing (rolls only). When specified (see 6.2) in the contract or purchase order, rolls shall be furnished with back printing on the paper back to facilitate accuracy in cutting. The back printing shall be in conformance with normal commercial practices.

3.7 Workmanship. The plastic sheet shall be free from ragged edges, die lines, cracks, holes, pits, gel marks, blisters, discolorations and other defects which would affect the serviceability of the item. The terms cited in this paragraph shall be defined as in ASTM D 883.

3.8 Regulatory requirements. In accordance with section 23.403 of the Federal Acquisition Regulations, the Government's policy is to acquire items composed of the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing suppliers' employees to undue hazards from the recovered materials. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-588 to the maximum extent practicable. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this commercial item description unless otherwise specified.

3.9 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch/pound units, provided they fall within the tolerances specified using conversion tables contained in the latest revision of Federal Standard No. 376, and all other requirements of this commercial item description are met.

3.10 Commercial item. The use of the term "commercial item description" in this document does not imply that any item or items offered are not required to conform with all requirements specified herein.

4. QUALITY ASSURANCE PROVISIONS

4.1 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 or order, 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 specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 Sampling. The levels of inspection and acceptable quality levels (AQLs) shall be in accordance with MIL-STD-105.

4.3 Lot formation. A lot shall consist of the material processed by one manufacturer, subjected to the same manufacturing and processing conditions. Each lot shall contain plastic sheet or roll of one type, class and size. The lot size, for purpose of determining the sample size, shall be expressed in units of packages of sheets or rolls, as applicable.

4.4 Sampling for visual and dimensional examination. A random sample of plastic sheet or rolls shall be selected from each lot in accordance with special inspection level S-2, AQL 2.5 expressed in terms of defects per hundred unit. The sample unit shall be one flat sheet or one complete roll. The sample plastic sheets or rolls shall be visually and dimensionally examined to verify compliance with this description. Tolerance limits specified are absolute limits as defined in ASTM E 29.

4.5 Sampling for tests. A random sample of plastic sheets or rolls shall be selected from each lot in accordance with special inspection level S-1, AQL 2.5 expressed in terms of percent defective. The sample unit shall be one sheet or one roll. One square foot of plastic sheet shall be taken for test purposes from each sample roll.

4.6 Testing.

4.6.1 Conditioning test specimens and test conditions. Test specimens shall be conditioned in accordance with ASTM E 171 and tested under these conditions, unless otherwise specified in the referenced specification.

4.6.2 Plastic sheet. The plastic sheet before coating shall be tested in accordance with the test methods specified in L-P-584 or L-P-377 as applicable.

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4.6.3 Length and width. The length and width of the sheet shall be measured with a calibrated steel rule.

4.6.4 Thickness. Thickness measurements shall be made with a calibrated micrometer or other equivalent instrument capable of measuring to 0.0001 inch.

4.6.5 Surface characteristics.

4.6.5.1 Penciling and erasing. Single lines approximately 0.4 mm in width and two inches in length shall be drawn on different portions of the sample with a black graphite No. 2 pencil, held in a vertical position under a pressure of 165 grams, and then erased with a soft, nongritty eraser. There shall be no appreciable change of color of the erased surface, no smudging and no ghosting. The surface shall withstand at least four such erasures of lines drawn and redrawn in exact line of previous drawing without leaving ghosts or traces of sufficient intensity to produce an image on blueprints and without impairing the surface for future reproductions of all types.

4.6.5.2 Inking and erasing. Single lines of varying widths of black waterproof drawing ink shall be drawn on different portions of the sample. There shall be no appreciable spreading, feathering, ragged edges, or skips. Five minutes after the lines have been drawn, they shall be erased with a soft, nongritty eraser. Ink lines shall then be drawn on the erased surface. There shall be no spreading and feathering. The plastic sheet shall withstand four such erasures and redrawing of lines.

4.6.6 Adhesive bond. The adhesive bond shall be determined in accordance with ASTM D 3336, Method A.

4.7 Examination for preparation for delivery. A random sample of shipping containers shall be selected from each lot for examination of the unit, intermediate and shipping containers (as applicable) for conformance with the preservation, packaging, packing, labeling, and marking required in the contract or order. Samples shall be selected in accordance with MIL-STD-105, inspection level S-2, acceptable quality level (AQL) 6.5, expressed in terms of defects per hundred units.

5. PREPARATION FOR DELIVERY

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

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6.4 National Stock Numbers (NSNs). The following is list of NSNs assigned which correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID.

NSN	Type	Class	Size	P/N
9330-00-580-6718	I	1	4	AA2681-114
9330-00-618-7214	II	-	6	AA2681-206
9330-00-618-7215	II	-	4	AA2681-204
9330-00-618-7216	I	1	5	AA2681-115
9330-00-618-7217	I	1	2	AA2681-112
9330-00-618-7218	I	1	1	AA2681-111
9330-00-752-9091	I	2	4	AA2681-124

MILITARY INTERESTS:**Military Coordinating Activity:**

Army - MR

Review Activities:

Air Force - 11

User Activities:

Navy - MC

Civil Agencies Coordinating Activities:

VA - OSS

Preparing Activity:

GSA - FSS