

[INCH-POUND]
A-A-2848
April 5, 1994

COMMERCIAL ITEM DESCRIPTION

PLASTIC SHEET, POLYETHYLENE TEREPHTHALATE (PET) AND GLYCOL-MODIFIED POLYETHYLENE TEREPHTHALATE (PETG)

The General Services Administration has authorized the use of this commercial item description.

1. SCOPE

1.1 Scope. This commercial item description covers polyester type plastic sheets, rolls, and strips.

2. CLASSIFICATION

2.1 Classification. The plastic sheets, rolls, and strips shall be of the following types, compositions, and classes as specified:

Type I - Adhesive backing
Type II - Plain (no adhesive)

Composition A - Polyethylene Terephthalate (PET)
Composition B - Glycol-modified Polyethylene Terephthalate (PETG)

Class 1 - Polished finish
Class 2 - Matte finish

3. SALIENT CHARACTERISTICS

3.1 Material. The plastic film shall be furnished in the appropriate form as dictated by dimensions; sheet, roll, or strip. The plastic film shall be clear and colorless unless otherwise specified.

3.1.1 Composition A - PET. The composition A plastic sheet shall be an extruded polyethylene terephthalate (PET) conforming to Table I.

3.1.2 Composition B - PETG. The composition B plastic sheet shall be an extruded glycol-modified polyethylene terephthalate (PETG). The properties of the extruded plastic sheet shall conform to Table I.

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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Table I - Physical Properties

Property, Units	Property Value	ASTM Test Method
Density, g/cm ³		D 792 or
PET	1.29 - 1.41	D 1505
PETG	1.23 - 1.29	
Spectral transmittance for Class 1 material, %		D 1003
Thickness ≤ 0.030 inch	85 minimum	
Thickness = 0.125 inch	80 minimum	
Tensile strength at yield, MPa	43 minimum	D 882 or D 638

3.2 Dimensions. The sheet dimensions shall be as listed in Table II. The tolerances for the length and width shall be $\pm 1/16$ (1.6 mm) inch for dimensions 12 inches (30.5 cm) and less. For dimensions greater than 12 inches (30.5 cm), the tolerances shall be $\pm 1/8$ inch (3.2 mm). Rolls shall have a length tolerance of + unlimited, -1 inch (2.5 cm). Adjacent edges of sheets shall intersect at an angle of $90^\circ \pm 2^\circ$. The thickness tolerances shall be as listed in Table III.

Table II - Dimensions

Form	Length	Width	Thickness
Sheet	4	3	0.0050
Sheet	6	4-1/2	0.0030
Sheet	8	6	0.0050
Sheet	12	10	0.0050
Sheet	50	20	0.125, 0.030, 0.020, 0.015, 0.005
Sheet	42	40	0.020
Roll	50 feet	21	0.0050
Roll	50 feet	40	0.010, 0.008, 0.005

Note: All dimensions are inches unless otherwise specified.

Table III - Thickness Tolerance

Thickness, inch	Tolerance, inch
0.003, 0.005	+0.0010, -0.0005
0.008, 0.010	± 0.001
0.015, 0.020	± 0.002
0.030	+0.003, -0.002
0.125	+0.007, -0.005

3.3 Adhesive backing. The type I plastic sheet shall have a pressure-sensitive adhesive coating with a removable paper backing. The adhesive shall be placed on the underside of plastic sheets with a matte finish.

The adhesive shall be a minimum of 0.001 inch (0.025 mm) dry film. 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. The adhesive side of the plastic sheet shall be covered with a suitable release paper backing. The adhesive shall have a minimum peel of 1 lb./in. width when tested in accordance with ASTM D 3330, Method A.

3.4 Finish. Class 1 plastic sheets shall have a polished finish on both sides. Class 2 plastic sheets shall have a matte finish on one side.

3.5 Surface characteristics. Class 2 plastic sheets shall be capable of accepting No. 2 pencil lines on the matte side and subsequent erasure (soft, non-gritty eraser) without appreciable change of color of the erased surface, smudging, or ghosting. Class 2 plastic sheets shall be capable of accepting ink lines (black waterproof drawing ink) on the matte side and subsequent erasure (soft, non-gritty eraser) with no appreciable spreading, feathering, ragged edges, or skips.

3.6 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 appearance and serviceability of the item. The material shall be uniform in color, transparency or opacity, finish, density, and other physical properties. The terms cited in this paragraph shall be as defined in ASTM D 883.

3.7 Measurement system. The values stated in inch-pound units are to be regarded as the standard. The values stated in parentheses are for informational purposes only.

3.8 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within tolerances specified using conversion tables contained in the latest revision of FED-STD-376, and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the specification preparing activity for changes to this document.

4. REGULATORY REQUIREMENTS

4.1 Recovered materials. The offerer/contractor is encouraged to use recovered materials in accordance with Public Law 94-580, as amended, to the maximum extent practicable.

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5. QUALITY ASSURANCE PROVISIONS

5.1 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

6. PACKAGING

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

7. NOTES

7.1 Part numbering. Plastic sheeting conforming with this commercial item description shall be identified by a part identification number configuration consisting of identification of a portion of the CID number, type, and class. An example of the part identification number configuration is shown below. This part identification numbering system is intended for identification and cross-indexing of the item within the Federal cataloging system. Part identification numbers are not required to be placed on the product or container.

Part Identification Numbering System for CID A-A-2848

Example:	AA2848-12	(AA2848-12)	Example - Type I Adhesive
			Backed, Class 2 Matte Finish
		-----Class (1, 2)	
		---- Type (1 - I, 2 - II)	
		-----General commercial item description number	

7.2 Sources of documents.

7.2.1 Sources of Governmental documents. Copies of Federal 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, and the GSA Specifications Unit (3FBP-W), Suite 8100, 470 E. L'Enfant Plaza, S.W., Washington, DC 20407.

7.2.2 Sources of non-Government association documents.

- ASTM D 638 - Standard Test Methods for Tensile Properties of Plastics
- ASTM D 792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
- ASTM D 882 - Standard Test Methods for Tensile Properties of Thin Plastic Sheeting
- ASTM D 883 - Definitions of Terms Relating to Plastics
- ASTM D 1003 - Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics
- ASTM D 1505 - Standard Test Method for Density of Plastics by the Density-Gradient Technique
- ASTM D 3330 - Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape at 180° Angle are available from:

ASTM
1916 Race Street
Philadelphia, PA 19103

7.3 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents (if applicable).

- a. Title, number, and date of this commercial item description.
- b. Type, composition, class, and size required.
- c. Color required, if other than clear.
- d. Preservation, packing, and marking required.

7.4 National Stock Numbers (NSN's): The following is a list of NSN's assigned which correspond to this CID. The list may not be indicative of all possible NSN's associated with this CID.

NSN	Type	Class	Composition	Size		
				L x	W x	T
9330-01-358-7521	II	1	A/B	50"x	20"x	0.03"
9330-01-358-7522	II	1	A/B	50"x	20"x	0.015"
9330-01-358-7523	II	1	A/B	50"x	20"x	0.02"
9330-01-358-7524	II	1	A/B	50"x	20"x	0.125"
9330-01-358-7525	II	1	A/B	50"x	40"x	0.008"
9330-01-358-7526	II	1	A/B	42"x	40"x	0.02"
9330-01-358-7527	II	1	A/B	50"x	40"x	0.01"
9330-01-358-7528	II	1	A/B	50"x	20"x	0.005"
9330-01-358-7529	II	2	A/B	50"x	40"x	0.005"
9330-01-358-4390	I	1	A/B	12"x	10"x	0.005"
9330-01-358-4391	I	1	A/B	50"x	21"x	0.005"
9330-01-358-4392	I	2	A/B	12"x	10"x	0.005"
9330-01-358-4393	I	1	A/B	4" x	3" x	0.005"
9330-01-358-4394	I	1	A/B	6"x	4-1/2"x	0.003"
9330-01-358-9653	I	1	A/B	8"x	6"x	0.005"

PREPARING ACTIVITY:
GSA - 7FXEE