

L-P-512C
April 19, 1977
SUPERSEDING
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September 10, 1971

FEDERAL SPECIFICATION

PLASTIC SHEET (SHEETING); POLYETHYLENE

This specification was approved by the Commissioner,
Federal Supply Service, General Services Administration,
for the use of all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers requirements for extruded sheet and sheeting and for compression molded sheets made from low, medium, and high density polyethylene and copolymers, hereinafter designated as polyethylene, conforming to L-P-390, or from other polyethylene compositions when specified.

1.2 Classification. Polyethylene sheet and sheeting shall be of the following types, classes, grades, forms, and special designations, as specified (see 6.2).

1.2.1 Types, classes and grades. The polyethylene sheet and sheeting shall be of the types, classes, and grades as specified in table I, plus other compositions when specified (see 3.1 and 6.2).

1.2.2 Form. The product shall consist of extruded sheeting (see 6.3), extruded sheet, compression molded unplaned sheet, or compression molded planed sheet, of the thickness, width, and length (or length or weight of rolls of sheeting) specified.

1.2.3 Special designation. A special designation may be required to cover sheet or sheeting ordered against the special requirements of 3.4.

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TABLE I. Types, classes and grades

Type	Application	Class ^{1/}	Grade	Color
I	General purpose (see 6.1.1)	L and M	1	Natural and colors, including black
			2	
		H	1	Natural and colors, including black
			2	
			3	
			4	
			5	
II	Dielectric (see 6.1.2)	L	1	Natural
			2	Colors, including black
			3	Natural
			4	Colors, including black
		M	1	Natural
			2	Colors, including black
		H	1	Natural and colors, including black
			2	
			3	
			4	
			5	
III	Weather resistant (see 6.1.3)	L	1	Black (carbon 0.5 ± 0.1 percent by weight)
			2	Black (carbon 2.50 ± 0.5 percent by weight)
			3	
			4	
		M	1	Black (carbon 0.5 ± 0.1 percent by weight)
			2	Black (carbon 2.50 ± 0.5 percent by weight)
			3	
		H	1	
			2	

^{1/}L = low density; M = medium density; H = high density

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2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Federal specifications:

- L-P-390 - Plastic Molding and Extrusion Material, Polyethylene, and Copolymers (Low, Medium and High Density).
- UU-P-268 - Paper, Kraft, Wrapping.
- PPP-B-585 - Boxes, Wood, Wirebound.
- PPP-B-601 - Boxes, Wood, Cleated Plywood.
- PPP-B-636 - Boxes, Shipping, Fiberboard.
- PPP-B-1055 - Barrier Material, Waterproofed, Flexible.
- PPP-T-45 - Tape, Gummed, Paper, Reinforced and Plain, for Sealing and Securing.
- PPP-T-76 - Tape, Packaging, Paper (for Carton Sealing).

Federal standards:

- Fed. Std. No. 123 - Marking for Shipment (Civil Agencies).
- Fed. Std. No. 595 - Colors.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles and Seattle, WA.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from the established distribution points in their agencies.)

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Military Specifications:

MIL-P-116 - Preservation, Packaging, Methods of.

Military Standards:

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

MIL-STD-129 - Marking for Shipment and Storage.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

American Society for Testing and Materials (ASTM) Standards:

D 618 - Conditioning Plastics and Electrical Insulating Materials for Testing.

D 638 - Tensile Properties of Plastics.

D 882 - Tensile Properties of Thin Plastic Sheeting.

D 1204 - Measuring Changes in Linear Dimensions of Nonrigid Thermoplastic Sheeting or Film.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

National Motor Freight Traffic Association, Incorporated, Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations Inc., Traffic Department, 1616 P Street, N. W. Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

3. REQUIREMENTS

3.1 Material. Unless otherwise specified, the material used for making the sheet and sheeting shall be polyethylene conforming to the requirements of L-P-390 applicable to the type, class, and grade specified. Conformance to these requirements shall be assured as specified in 4.2.1 and 6.2. When an additional composition is required to enable the product to conform to a special requirement, the material shall be as specified (see 3.4).

3.2 Tensile strength and elongation. Sheet and sheeting having a nominal thickness of 3.2mm (0.125 inch) and under shall have tensile strength and elongation not less than 90 percent of the values specified in L-P-390 for the applicable type, class, and grade. Sheet and sheeting greater than 3.2mm (0.125 inch) nominal thickness shall meet the tensile strength and elongation requirement of L-P-390.

3.3 Shrinkage. When controlled shrinkage is specified (see 6.2), sheet and sheeting shall not shrink in excess of the maximum percent specified.

3.4 Other special requirements. When specified (see 6.2) the sheet and sheeting shall conform to any special requirement specified in the contract or purchase order (see 3.1).

3.5 Dimensions and tolerances.

3.5.1 Thickness. Sheet and unplanned sheet shall have the thickness specified, within the tolerances specified in table II, as measured at any point on a sheet or at any point further than one inch from the edge of extruded sheeting. Planed sheet shall have the thickness tolerance specified by the procuring agency (see 6.2).

TABLE II. Nominal thickness^{1/} increments and tolerances

Thickness	Increment	Tolerance, percent of nominal
0.10 to 0.24mm 0.004 to 0.009 inch	0.02mm 0.001 inch	±10
0.25 to 1.8mm 0.01 to 0.07 inch	0.25mm 0.01 inch	
2.0 to 5.0mm 0.08 to 0.20 inch	0.50mm 0.02 inch	±5
7.5 to 25mm 0.3 to 1.0 inch	2.5mm 0.10 inch	
Over 25mm Over 1.0 inch	-- --	±5

^{1/} mm = millimetre

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3.5.2 Length and width of sheet (see 6.4). Sheet shall be of the length and width specified $+3.2\text{mm}$ -0mm ($+1/8$ inch -0 inch), except that a maximum of 4 percent of the sheet in a shipment may be trimmed 51mm (2 inch) under-size or half size. For example, that maximum percentage of sheet ordered as 510 by 1020mm (20 by 40 inch) may be trimmed to 510 by 960mm (20 by 38 inch), 460 by 1020mm (18 by 40 inch), 460 by 960mm (18 by 38 inch), 510 by 510mm (20 by 20 inch), each $+3.2\text{mm}$ -0mm ($+1/8$ inch -0 inch). Such trimmed sheet shall be packaged separately from full sized sheet. The sheet shall not deviate more than $\pm 13\text{mm}$ ($\pm 1/2$ inch) from true rectangles having the specified dimensions.

3.5.3 Width of sheeting (see 6.5). Sheeting shall have the width specified $+13\text{mm}$ -0mm ($+1/2$ inch -0 inch).

3.5.4 Length or weight and diameter of rolls of sheeting (see 6.5). The sheeting shall be supplied in rolls having the length or weight specified, $+3$ percent -1 percent, except that one roll in a shipment may have the lesser length or weight required to make the total length or weight of the shipment equal to the quantity ordered. When specified, the rolls shall have the diameters specified.

3.5.5 Cores (see 6.5). The sheeting shall be wound on substantial cores having lengths equal to the nominal width of the sheeting, $+13\text{mm}$ -0mm ($+1/2$ inch, -0 inch) and having diameters, including tolerances, which are appropriate for the thickness of sheeting supplied. When specified, the inside diameters including tolerances of the cores shall be as specified. Unless otherwise specified, tolerance shall be $+3.2\text{mm}$ -0mm ($+1/8$ inch -0 inch) for a 76mm (3 inch) diameter hole.

3.6 Color and transparency. Type III sheet and sheeting shall be black in color. Types I and II and special sheet and sheeting shall be of colors specified by the procuring agency and shall approximate the applicable color number of Fed. Std. No. 595, as determined visually, when so specified (see 6.2). When color and transparency are not specified (excepting for type III, black), the color and degree of transparency (or translucency) shall be that characteristic of polyethylene sheet and sheeting without colorant, as applicable to the thickness and type specified.

3.7 Bow and twist of sheet. When specified by the procuring activity (see 6.2), the sheet shall be free of bow and twist to the extent specified, when determined in accordance with 4.3.5.

3.8 Workmanship (see 6.6). The sheet and sheeting shall have a smooth finish and shall be free of cracks, blisters, bubbles, discolorations, craze, surface scratches that form definite indentations, and other defects that could affect appearance or serviceability.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, 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 specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Sampling for inspection and acceptance. Sampling for inspection and acceptance shall be performed in accordance with the provisions set forth in MIL-STD-105, except where otherwise indicated. For purposes of sampling, an inspection lot for examination and tests shall consist of all material of the same type, grade, and class submitted for delivery at one time.

4.2.1 Inspection of materials and components. In accordance with 4.1 the supplier is responsible for insuring that materials and components used were manufactured, tested, and inspected in accordance with the requirements of this specification and, to the extent specified, of all referenced subsidiary specifications and standards. In the event of conflict, this specification will govern. A supplier's certificate of compliance with 3.1 shall be furnished.

4.2.2 Inspection of sheet and sheeting.

4.2.2.1 Examination of the sheet and sheeting. Examination of the sheet and strip shall be made in accordance with the classification of defects, inspection levels, and acceptable quality levels (AQLs) set forth below. The lot size, for purpose of determining the sample size in accordance with MIL-STD-105, shall be expressed in units of stacks of sheet or rolls of sheeting for examination in 4.2.2.1.1 and 4.2.2.1.2, and in units of shipping containers for examination in 4.2.2.1.3.

4.2.2.1.1 Examination of the sheet and sheeting for defects in appearance and workmanship. The sample unit for this examination, specified in table III, shall be 1220 linear mm (48 inch) of sheet or sheeting disregarding the first three turns of the roll (sheeting).

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TABLE III. Examination of the sheet and sheeting for color and defects in appearance and workmanship

Examine	Defects
Color and transparency	Not as specified or not in accordance with 3.6.
Appearance and workmanship	<p>Not uniform texture, finish, or color.</p> <p>Not clean, presence of foreign material, imbedded particles.</p> <p>Not free of cracks, cuts, tears, blisters, creases, bubbles, wrinkles, craze, discolorations, surface scratches.</p> <p>Voids, or distortions.</p> <p>Surfaces not smooth, edges not straight and smooth.</p>

4.2.2.1.2 Examination of the sheet and sheeting for defects in dimensions. The sample unit for this examination, specified in table IV, shall be 1220 linear mm (48 inch) of sheet or sheeting. Three thickness measurements shall be made on each sheet in each sample unit. On extruded sheet, the three measurements shall be made at points 25mm (1 inch) from each end and in the middle of an edge which is transverse to the direction of extrusion. On compression molded sheet, measurements shall be made 25mm (1 inch) from each of two diagonally opposite corners and in the middle of the sheet. For sheeting, thickness shall be measured 25mm (1 inch) from each edge and in the middle along a randomly chosen cross section of the sheeting for each sample unit. Two measurements shall be made for length and two for width of sheet and sheeting for each sample unit. One weight determination shall be made for one roll of sheeting for each sample unit.

TABLE IV. Examination of the sheet and sheeting for dimensional defects

Examine	Defects
Length and width (sheet)	Varies by more than plus or minus the applicable tolerance (see 3.5.2, and 3.5.3).
Thickness (sheet and sheeting)	Varies by more than plus or minus the applicable tolerance (see 3.5.1).
Length and diameter (sheeting)	Improper length and inappropriate diameter; inside diameter and tolerances not as specified (see 3.5.4).
Core diameter (sheeting)	Varies by more than plus or minus tolerance when specified (see 3.5.5).
Weight of roll (sheeting)	Not as specified; varies by more than plus or minus tolerance (see 3.5.4).

4.2.2.1.3 Examination of the preparation for delivery requirements. An examination shall be made in accordance with table V to determine that packaging, packing, and marking comply with section 5 requirements. The sample unit for this examination shall be one shipping container fully packed, selected just prior to the closing operation. Shipping containers fully prepared for delivery shall be examined for closure defects.

4.2.2.1.4 Inspection levels and AQLs for examinations. The inspection levels for determining the sample size and the AQL expressed as defects per 100 units shall be as follows:

Examination paragraph	Inspection level	AQL
4.2.2.1.1	II	2.5
4.2.2.1.2	S-2	2.5
4.2.2.1.3	S-2	2.5

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TABLE V. Examination of preparation for delivery

Examine	Defects
Packaging	<p>Not level specified; not in accordance with contract requirements.</p> <p>Rolls not unit wrapped and packaged as specified.</p> <p>Unit packing material not as specified; closures not made by specified or required methods or materials.</p> <p>Cores missing, crushed, or broken.</p>
Packing	<p>Not level specified; not in accordance with contract requirements.</p> <p>Any nonconforming component, component missing, damaged, or otherwise defective affecting serviceability.</p> <p>Inadequate application of components such as: Incomplete closures of case liners; container flaps loose or inadequate strappings, bulged or distorted containers.</p>
Count	Less than specified or indicated quantity.
Weight	Gross weight exceeds specified requirements.
Markings	<p>Interior or exterior markings omitted, illegible, incorrect, incomplete, of improper size, location, sequence or method of application.</p> <p>Not in accordance with contract requirements.</p>

4.2.2.2 Classification of tests. All tests under this specification shall be classified as lot acceptance tests. They shall be made on each lot of material offered against this specification and, in conjunction with the above examination, shall be the basis of acceptance or rejection of the lot.

4.2.3 Testing. The sheet and sheeting shall be tested for the applicable characteristics in accordance with the test methods specified herein for each lot submitted for inspection. Sampling shall be in accordance with MIL-STD-105 and the lot size for the purpose of determining sample size for testing shall be expressed in units of 91 kilograms (200 pounds) of sheet and nearest equivalent weight of rolls of sheeting. The inspection level shall be S-1. The sample size (number of units of product drawn from a lot) shall be in accordance with the single sampling plan for normal inspection and each unit shall consist of sufficient material to prepare all specimens required for testing. Each sample unit shall be tested and must meet all applicable requirements of section 3. Test results for each characteristic in each sample unit shall be the averaged results from the specimens tested for that characteristic.

4.3 Test methods.

4.3.1 Preparation of specimens. Test specimens shall be taken across the width of sheet or strip excluding areas of wrinkles, folds, gel, and other obvious visually determined imperfections.

4.3.2' Specimen conditioning and testing. Unless otherwise specified, test specimens shall be conditioned in accordance with procedure A of ASTM D 618 and tested at $23^{\circ} \pm 2^{\circ}\text{C}$ ($73.4^{\circ} \pm 3.6^{\circ}\text{F}$) and 50 ± 5 percent relative humidity.

4.3.3 Tensile strength and elongation. Sheet and sheeting less than 1.02mm (0.040 inch) in nominal thickness shall be tested in accordance with ASTM D 882, and those having nominal thicknesses at or above 1.02mm (0.040 inch) shall be tested in accordance with ASTM D 638. The specimens shall be die cut from sheet or sheeting which have not been subjected to remolding.

4.3.4 Shrinkage. When specified (see 6.2), samples of extruded sheet or sheeting shall be tested for shrinkage in accordance with ASTM D 1204, using a minimum oven time of 30 minutes and an oven temperature of $130^{\circ} \pm 2^{\circ}\text{C}$ ($266^{\circ} \pm 3.6^{\circ}\text{F}$) for classes L and M and of $140^{\circ} \pm 2^{\circ}\text{C}$ ($284^{\circ} \pm 3.6^{\circ}\text{F}$) for class H. If previous tests on the same class and nominal thickness of sheet or sheeting have shown that the use of talc or paper is unnecessary to provide free shrinkage, these refinements may be modified or omitted.

4.3.5 Bow and twist. When specified (see 6.2) the bow and twist of a sheet shall be determined by laying the sheet on a plane table and by taking measurements as follows:

4.3.5.1 Bow. The sheet shall be placed on the table with its convex side (if any) down. Wedges or blocks shall be placed under any raised edges on opposite sides or ends of the sheet to prevent rocking but without causing any additional bending of the sheet. The maximum clearances between the table top and the underside of the sheet shall be measured at opposite ends and sides of the sheet and their averages as lengthwise and crosswise bow respectively shall be reported. Any reverse or "S" bows shall be measured also.

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4.3.5.2 Twist. By means of wedges or blocks, the sheet shall be secured in a position such that the two corners of one end are equidistant above the table top. The difference in heights above the table top between the two opposite corners of the sheet shall be measured. The difference shall be divided by two, and the value shall be reported as twist.

5. PREPARATION FOR DELIVERY

5.1 Packaging. Packaging shall be level A, B, or C, as specified (see 6.2).

5.1.1 Level A.

5.1.1.1 Rolls. Sheeting shall be supplied in rolls. Each roll shall be wound on a substantial core with an inside diameter of not less than 76mm (3 inches). The rolls shall not exceed 68.0 kilograms (150 pounds) in weight and shall be suitably restrained from unwinding. Each roll shall be wrapped with at least one layer of kraft wrapping paper, conforming to UU-P-268, and tightly sealed with tape conforming to type III, grade B of PPP-T-45.

5.1.1.2 Sheets. The sheets, in the quantities specified by the procuring activity, shall be interleaved with a neutral paper, then loosely rolled and secured so as not to unroll. Each roll of sheets shall be wrapped completely with kraft wrapping paper conforming to PPP-B-1055 and secured with tape conforming to PPP-T-76. The method of unit packing is method III of MIL-P-116.

5.1.2 Level B (Applicable to Army only). Packaging shall be the same as for level A (see 5.1.1).

5.1.3 Level C. Sheet and sheeting shall be unit packed to afford adequate protection against deterioration and physical damage during shipment from the supply source to the first receiving activity. The supplier may use his standard practice when it meets these requirements.

5.2 Packing. Packing shall be level A, B, or C, as specified (see 6.2).

5.2.1 Level A. Sheets and sheeting unit packed as specified in 5.1.1 shall be packed in containers conforming to PPP-B-585, or PPP-B-601 (over-seas type). Closure and strapping shall be in accordance with the appendix of the applicable container specification. Strapping shall be zinc coated.

5.2.2 Level B. Sheets and sheeting unit packed as specified in 5.1.1 shall be packed in wood boxes specified in 5.2.1, except that they shall be domestic type, or in fiberboard boxes conforming to PPP-B-636, type CF or SF, class weather resistant, variety and grade as appropriate. Closure of wood boxes shall be in accordance with the appendix of the applicable container specification. Fiberboard boxes shall be closed by a combination of stitching or stapling the bottom flaps and closing the top flaps with an adhesive, as specified by the appendix of the containers specification, applied to the entire area of contact between the top flaps.

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5.2.3 Level C. Sheets and sheeting shall be packed in accordance with commercial practice adequate to insure carrier acceptance for safe delivery at destination at the lowest transportation rate for such supplies. Containers shall be in accordance with Uniform Freight Classification Rules or National Motor Freight Classification Rules, as applicable.

5.3 Marking.

5.3.1 Civil agencies. Interior packages and shipping containers shall be marked in accordance with Fed. Std. No. 123.

5.3.2 Military requirements. Shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. Polyethylene sheet and sheeting in the thinner gauges are used principally for chemical tank linings, spacers in electrical equipment, and for thermoforming into such items as trays, pallets, and shipping containers. The thicker sheets are used primarily as machine shop stock. Polyethylene should not be used in applications requiring high strength or resistance to heat or to scratching or cutting.

6.1.1 Type I. This type is for general purpose use.

6.1.2 Type II. This type is used in high frequency applications.

6.1.3 Type III. This type has weather resistance obtained by the addition of carbon black. It may be used in dielectric applications, also.

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents:

- a. Title, number, and date of this specification.
- b. Type, class, and grade of material required (see 1.2 and 3.1).
- c. Special composition, if required (see 1.2.1 and 3.1).
- d. Method of assuring composition, if required (see 4.2.1).
- e. Color and transparency required (see 3.6).
- f. Nominal thickness required (see 3.5.1).
- g. Whether planed sheet is required and, if so, what thickness tolerance is required (see 3.5.1).

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- h. Width and length of sheets required (see 3.5.2).
- i. Whether all sheets in the shipment must be full size (see 3.5.2).
- j. Maximum permissible bow or twist of sheet, if required (see 3.7).
- k. Number of sheets per unit package, if required (see 5.1).
- l. Nominal width of sheeting required (see 3.5.3).
- m. Weight or length of rolls of sheeting required (see 3.5.4).
- n. Diameter of rolls of sheeting, if required (see 3.5.4).
- o. Inside diameter and construction of roll core, if required (see 3.5.5).
- p. Maximum permissible shrinkage, if required (see 3.3).
- q. Special requirements, if required (see 3.4).
- r. Selection of applicable degree of preservation and packing (see 5.1 and 5.2).

6.3 Processes. The commonly available compositions usually are extruded into sheeting in thicknesses from 0.25mm to 2.5 or 3.2mm (0.010 inch to 0.100 or 0.125 inch) and compression molded into sheets of greater thickness. The dividing thickness between extrusion and compression molding is lower for the compositions for which there is less demand. Sheets are compression molded directly to the required size or are cut from extruded sheeting or from larger compression molded sheet.

6.4 Sheet size. The most commonly available compositions are supplied in standard sheet sizes of 910 by 1520mm (36 by 60 inch) and 1220 by 2440mm (48 by 96 inch) for thickness up to 102mm (4 inch) and of 910 by 1520mm (36 by 60 inch) for thickness up to 150mm (6 inch). These sizes can be cut without waste into even fractions of dimensions such as 810 by 1220mm (32 by 48 inch) or 760 by 910mm (30 by 36 inch). Some less commonly used compositions may be available only in smaller sizes, such as 510 by 1020mm (20 by 40 inch).

6.5 Roll sizes. Extruded sheeting usually is supplied in 1220mm (48 inch) width, wound into rolls with diameters approximately 300mm (12 inch), weighing approximately 45 kilograms (100 pounds), and with cores of 76mm (3 inch) inside diameter for thinner sheeting and larger cores for thicker sheeting. These dimensions and weights will vary with thickness and composition of sheeting.

6.6 Static electricity hazard. Under certain circumstances in handling sheeting there can be a hazard from static electricity discharges. Recommend appropriate caution when handling in environment where explosions can occur.

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MILITARY CUSTODIANS:

Army - MR
Navy - AS
Air Force - 11

Preparing activity:

Army - MR

CIVIL AGENCY COORDINATING ACTIVITIES:

Review activities:

GSA-FSS

Army - EL, MI, PA, GL, SM, ME
Navy - OS
Air Force - 99
DSA - GS

User activities:

Navy - SH, MC, YD

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein. Price 50 cents each.

SPECIFICATION ANALYSIS SHEET

Form Approved Budget Bureau No. 119-R004

INSTRUCTIONS

This sheet is to be filled out by personnel either Government or contractor, involved in the use of the specification in procurement of materials for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity.

SPECIFICATION L-P-512C Plastic Sheet (Sheeting); Polyethylene

ORGANIZATION**CITY AND STATE****TRACT NO****QUANTITY OF ITEMS PROCURED****DOLLAR AMOUNT****\$****MATERIAL PROCURED UNDER A**☐ **DIRECT GOVERNMENT CONTRACT**☐ **SUBCONTRACT****AS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?****A GIVE PARAGRAPH NUMBER AND WORDING****B RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES****COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID****IS THE SPECIFICATION RESTRICTIVE?**☐ **YES**☐ **NO****IF "YES", IN WHAT WAY?**

REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)

SUBMITTED BY (Printed or typed name and activity)**DATE**

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Army Materials and Mechanics Research Center
Watertown, Massachusetts 02172

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