

L-P-378D
 AMENDMENT-1
December 21, 1973

FEDERAL SPECIFICATION

PLASTIC SHEET AND STRIP, THIN GAUGE, POLYOLEFIN

This amendment which forms a part of Federal Specification L-P-378D, dated December 8, 1972, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

PAGE 1

1.2.1 Add the following in proper sequence: "Type V - Heat shrinkable weatherable polyethylene".

PAGE 3

2.1, in title for MIL-STD-147. Delete "or" and substitute "for".

PAGE 4

Add the following new paragraph in proper sequence.

"3.1.3 Type V. The material shall be flexible, unsupported polyethylene film meeting the initial requirement for type IV. After accelerated weathering, the type V material shall meet the requirements for tensile strength, elongation, and tear strength specified in table I. The film shall be natural, transparent, colored only by the ultraviolet inhibitors which may vary the shade from colorless to a transparent green tint."

PAGES 5, 6, and 7

Table I, in the heading, after "Type IV". Add "and V".

PAGE 7

In heading of table, after "Type IV and V". Add "3".

Add the following new footnote in proper sequence.

"3/ Appreciable change in color means a change which is immediately noticeable in comparing the test specimens with the original unexposed material. If closer inspection or a change of angle of light is required to make a slight change in color, the change is not considered appreciable. All the physical properties shall meet or exceed the original minimum requirements as specified for the type IV film. After accelerated weathering, tensile strength, elongation and tear strength shall meet or exceed the original minimum requirements."

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PAGE 11

4.2.2.2, under defects for materials, after "damaged". Delete period and add ", or not as specified."

PAGE 14

Table II, at end of table. Add the following:

Characteristic	Requirement	Test method	Lot avg	No. of determinations	Results reported as
"Accelerated weathering (Type V only)	3.1.3 and Table I	4.3.11 3/			
Tensile strength and elongation after accelerated weathering	3.1.3 and Table I	4.3.12	X	5 machine direction 5 transverse for each sample unit	Pounds per square inch or percent as applicable
Tear strength after accelerated weathering	3.1.3 and Table I	4.3.13	X	5 machine direction 5 transverse for each sample unit	1 gram

3/ Observe color and indicate as pass or fail."

PAGE 20

Add the following new paragraphs in proper sequence:

"4.3.11 Accelerated weathering. The accelerated weathering shall be performed in accordance with method 5804 of FED-STD-191. The specimen shall be exposed for 200 hours with filters. After exposure, the specimen shall be allowed to dry and then be conditioned at $73.5 \pm 2^{\circ}\text{F}$ and 50 ± 4 percent relative humidity for 4 hours before testing.

"4.3.12 Tensile strength and elongation after accelerated weathering. After accelerated weathering, as specified in 4.3.11, tensile strength and elongation tests shall be performed as specified in 4.3.4.

"4.3.13 Tear strength after accelerated weathering. After accelerated weathering, as specified in 4.3.11, tear strength test shall be performed as specified in method 5132 of FED-STD-191."

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PAGE 21

5.1.1.2, line 7. Delete "minimum 2-inch wide" and substitute "2-inch minimum width".

PAGE 23

6.2, subparagraph (j). Delete in its entirety.

Custodians:

Army - GL
Navy - SA
Air Force - 69

Review activities:

Army - MD, MU, SM
Air Force - 71, 82

User activities:

Army - EL, AV
Navy - MC, EC

Preparing activity:

Army - GL

Civil Agency Interest:

AGR-AMS
GSA-FSS
JUS-FPI
MSA-JFK

