

AEROSPACE MATERIAL SPECIFICATION

SAE AMS3778/1

REV. B

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Superseding AMS3778/1A

Tape, Woven, Nylon
350 Pounds Force (1557 N)

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE:

1.1 Form: This specification covers one type of nylon tape.

1.2 Application: Primarily for use as lacing tapes in the manufacture of flight clothing.

1.3 Classification: 350 pounds force (1557 N) breaking strength.

2. APPLICABLE DOCUMENTS: See AMS-3778.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the tape described herein shall consist of this document and the latest issue of the basic specification, AMS-3778.

3.2 Construction and Properties: Shall conform to the requirements of Table I and the following:

3.2.1 Yarn:

3.2.1.1 Denier and Filament Count: Shall be 210 denier, 34 filaments.

3.2.1.2 Twist: Shall be not less than 2.5 turns per inch (25.4 mm).

3.2.2 Tape:

3.2.2.1 Weave: Shall be as shown in Figure 1.

3.2.3 Length: Tape shall be furnished on spools, each containing 90 - 110 yards (82 - 100 m). No spool shall contain more than three pieces and no piece shall be less than 10 yards (9 m) in length.

4. QUALITY ASSURANCE PROVISIONS: See AMS-3778.

5. PREPARATION FOR DELIVERY: See AMS-3778.

6. ACKNOWLEDGMENT: See AMS-3778.

7. REJECTIONS: See AMS-3778.

8. NOTES: See AMS-3778.

TABLE I

Properties and Requirements

Property	Requirement
Thickness, maximum	0.040 inch (1.02 mm)
Width	5/16 inch $\pm$ 1/32 (7.9 mm $\pm$ 0.8)
Weight, minimum	0.08 ounce per yard (2.5 g/m)
Breaking Strength, minimum	350 pounds force (1557 N)
Ends in warp, minimum	
Total count	121
Face and back	84
Binder	16 (2 ends as one)
Stuffer	21
Picks per inch (25.4 mm), minimum	60
Ply of yarns	
Warp	1
Binder	1
Stuffer	1
Filling	1