

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS 3777/6

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TAPE, NYLON, NONMELTING, REINFORCING
5/16 (8) Wide, 350 (1555 N) Breaking Strength

1. SCOPE:

- 1.1 Form: This specification covers one width and strength of nylon tape.
- 1.2 Application: Primarily for use in binding and reinforcing applications in parachute packs.
- 1.3 Classification: 5/16 in. (8 mm) wide nylon reinforcing tape having a breaking strength of 350 lb (1555 N).

2. APPLICABLE DOCUMENTS: See AMS 3777.

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 3777.

3.2 Construction and Properties:

- 3.2.1 Yarn: Yarn used in weaving the tape shall be nonmelting, aromatic polyamide with a char temperature not lower than 355°C (675°F).

3.2.1.1 Denier/Ply: Shall be as follows:

Warp yarn	200/1
Binder yarn	200/1
Stuffer yarn	200/1
Filling yarn	200/1

REAFFIRMED

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3.2.1.2 Twist: Shall be as follows:

Binder yarn, min	3.0
Stuffer singles, min	3.0
Filling yarn singles, min	2.0

3.2.2 Tape: Shall conform to the following:

3.2.2.1 Weave: As shown in Fig. 1.

3.2.2.2 Color: FED-STD-595 Sage Green. The color shall be obtained by use of melt spun solution dyed yarn.

3.2.2.3 Width: 0.31 in. $\pm$ 0.03 (8 mm $\pm$ 0.8).

3.2.2.4 Thickness: 0.037 in. (0.94 mm), max.

3.2.2.5 Breaking Strength: Not less than 350 lb (1555 N) unaged and not less than 85% of the unaged strength after aging.

3.2.2.6 Thread Count: Warp yarns (face and back) shall be not less than 138. Stuffer yarns shall not be less than 28 (4 as 1). Picks shall be not less than 68 (2 as 1) per in. (25.4 mm).

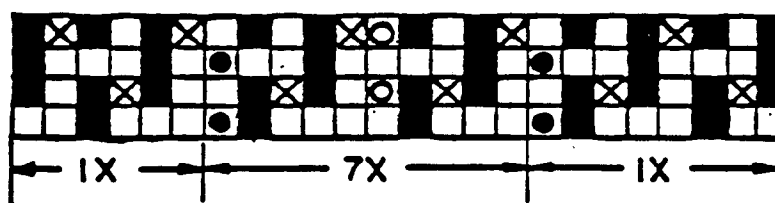
4. QUALITY ASSURANCE PROVISIONS: See AMS 3777.

5. PREPARATION FOR DELIVERY: See AMS 3777.

6. ACKNOWLEDGMENT: See AMS 3777.

7. REJECTIONS: See AMS 3777.

8. NOTES: See AMS 3777.



-  = Face warp - 2 ends as 1
-  = Back warp - 2 ends as 1
-  = Stuffer warp - 4 ends as 1
-  = Binder warp - 2 ends as 1

FIGURE 1. WEAVE DIAGRAM