

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS 3777/2

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TAPE, NYLON, NONMELTING, REINFORCING
9/16 (14) Wide, 500 (2225 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: 9/16 in. (14 mm) wide nylon reinforcing tape having a breaking strength of 500 lb (2225 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	200/4
Filling yarn	200/2

3.2.1.2 Twist: Shall be as follows:

Warp ply yarn, min	2.5
Filling yarn ply, min	2.5

REAFFIRMED

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3.2.2 Tape: Shall conform to the following:

3.2.2.1 Weave: 2-up and 2-down herringbone twill with reversal in the center.

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: 0.56 in. $\pm$ 0.03 (14 mm $\pm$ 0.8).

3.2.2.4 Thickness: 0.030 in. (0.76 mm), max.

3.2.2.5 Weight: 0.25 oz per linear yd (8 g/linear m), max.

3.2.2.6 Breaking Strength: Not less than 500 lb (2225 N) unaged and not less than 85% of the unaged strength after aging.

3.2.2.7 Ultimate Elongation: 12%, min.

3.2.2.8 Thread Count: Warp ends (face and back) shall be not less than 60. Filling picks shall be not less than 32 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.