

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS 3777/3

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TAPE, NYLON, NONMELTING, REINFORCING
1 (25) Wide, 1000 (4450 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: One in. (25 mm) wide nylon reinforcing tape having a breaking strength of 1000 lb (4450 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	200/2
Binder yarn	200/2
Filling yarn	200/2

REAFFIRMED

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3.2.1.2 Twist: Shall be as follows:

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

3.2.2 Tape: Shall conform to the following:

3.2.2.1 Weave: Shall be composed of two ground warps (face and back), one binder warp, and one filling. The face warp shall weave plain with picks that show on the face and back. The binder warp (18 min) shall weave plain throughout.

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

3.2.2.3 Width: 1.0 in. $\pm$ 0.03 (25 mm $\pm$ 0.8).

3.2.2.4 Thickness: 0.040 in. (0.02 mm), max.

3.2.2.5 Weight: 0.50 oz per linear yd (16 g/linear m), max.

3.2.2.6 Breaking Strength: Not less than 1000 lb (4450 N) unaged and not less than 85% of the unaged strength after aging.

3.2.2.7 Ultimate Elongation: 15%, min.

3.2.2.8 Thread Count: Warp yarns (face and back) shall be not less than 241. Filling picks shall be not less than 44 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.