

**AEROSPACE
MATERIAL
SPECIFICATION**

AMS 3901/6A
Superseding AMS 3901/6

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ROVING, ORGANIC FIBER (PARA-ARAMID), HIGH MODULUS
OR 500,000 (3450) Tensile Strength, 17,500,000 (120) Tensile Modulus
4560 Denier, 0.6% Finish

1. SCOPE:

1.1 Form: This specification covers one type of organic fiber in the form of roving. The product shall be formed as four ends of 1140 denier yarn (AMS 3901/3) collected into an approximately parallel arrangement without twist.

1.2 Classification: Organic 4560 denier roving with 500,000 psi (3450 MPa) tensile strength and 17,500,000 psi (120 GPa) tensile modulus for use in filament winding requiring high tensile strength and high modulus of elasticity in tension.

2. APPLICABLE DOCUMENTS: See AMS 3901.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the organic roving described herein shall consist of this document and the latest issue of the basic specification, AMS 3901.

3.2 Properties: Shall be as follows; no individual package, based on the average of five determinations, shall have less than 90% of the lot minimum values specified in 3.2.1 and 3.2.2:

3.2.1 Tensile Strength, min 500,000 psi (3450 MPa)
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3.2.2 Modulus of Elasticity, min 17,500,000 psi (120 GPa)

3.2.3 Denier 4560 ± 240
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