

YARN, ORGANIC FIBER (PARA-ARAMID), HIGH MODULUS
OY 390,000 (2690) Tensile Strength, 16,500,000 (115) Tensile Modulus
2130 Denier, 1.2% Finish

1. SCOPE:

1.1 Form: This specification covers one type of organic fiber in the form of yarn. The product shall be formed as a multiplicity of filaments drawn together and gathered into an approximately parallel arrangement.

1.2 Classification: Organic 2130 denier yarn with 390,000 psi (2690 MPa) tensile strength and 16,500,000 psi (115 GPa) tensile modulus for use in weaving 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 yarn 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	390,000 psi (2690 MPa)
3.2.2 Modulus of Elasticity, min	16,500,000 psi (115 GPa)
3.2.3 Denier	2130 $\pm$ 213
3.2.4 Fiber Finish, by weight	1.2% $\pm$ 0.6
3.2.5 Fiber Density	0.052 lb per cu in. $\pm$ 0.001 (1.45 g/cm ³ $\pm$ 0.03)

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