

**POLYAMIDE-IMIDE BAR, ROD, AND SHAPES
30 Carbon (Graphite) Fiber**

1. SCOPE:

- 1.1 Form: This specification covers a polyamide-imide plastic filled with carbon (graphite) fiber in the form of molded bar, rod, and shapes.
- 1.2 Application: Primarily for parts requiring high strength, high modulus, thermal resistance, and toughness up to 250°C (480°F).

2. APPLICABLE DOCUMENTS: See AMS 3670.

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specification: The complete requirements for procuring the product described herein shall consist of this document and the latest issue of the basic specification, AMS 3670.
- 3.2 Material: Shall be a molded polyamide-imide polymer filled with nominally 30% graphite fiber by weight.
- 3.3 Properties: The product shall conform to the following requirements, determined on molded test specimens and in accordance with test methods specified in AMS 3670. Specimens for elevated temperature tests shall be held at the test temperature for not less than 30 min. prior to testing. Values for tensile strength, elongation, flexural strength, and compressive strength shall be reported as the average of three determinations for each test; no individual value shall be less than 90% of the minimum average value specified.

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