

Submitted for recognition as an American National Standard

POLYAMIDE-IMIDE BAR, ROD, AND SHAPES
12 Graphite - 3 Polytetrafluoroethylene Filled

1. SCOPE:

- 1.1 Form: This specification covers a polyamide-imide plastic filled with graphite and polytetrafluoroethylene (PTFE) in the form of molded bar, rod, and shapes.
- 1.2 Application: Primarily for parts requiring low coefficient of friction, wear resistance, thermal resistance, and toughness up to 250°C (480°F).

2. APPLICABLE DOCUMENTS: See AMS 3670.

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specifications: 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 12% graphite and 3% polytetrafluoroethylene (PTFE).
- 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 minutes 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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