

SAE The Engineering
Resource For
Advancing Mobility

400 Commonwealth Dr., Warrendale, PA 15096

**AEROSPACE
MATERIAL
SPECIFICATION**

AMS 3670/2A
Superseding AMS 3670/2

Submitted for recognition as an American National Standard

Issued 1-51-81
Revised 10-1-85

**POLYAMIDE-IMIDE BAR, ROD, AND SHAPES
20 Graphite - 3 Polytetrafluoroethylene (PTFE) 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, 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 20% 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 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.

SAE Technical Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

AMS documents are protected under United States and international copyright laws. Reproduction of these documents by any means is strictly prohibited without the written consent of the publisher.