





**AEROSPACE
MATERIAL
SPECIFICATION**

AMS 3571/6

Issued 7-1-76
Revised

**POLYURETHANE CASTING RESIN, FLEXIBLE, SOLID
Polyether-Type
Durometer Hardness 95 "A"**

1. SCOPE:

1.1 Form: This specification covers one type of polyether-type urethane resin and hardener which, when mixed and cured, produce elastomeric polyurethane products.

1.2 Application: Primarily for liquid application as electronic encapsulation or for casting parts and shapes.

1.3 Classification: Durometer 95 "A"

2. APPLICABLE DOCUMENTS: Shall be as shown in AMS 3571.

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 3571.
- 3.2 **Material:** Shall be as specified in AMS 3571.
- 3.3 **Properties of Cured Product:** The material, when mixed and cured in accordance with the manufacturer's instructions, shall conform to the following requirements, determined in accordance with test methods listed in AMS 3571:

3.3.1 Hardness, Durometer "D", or equiv. Durometer "A", or equiv.	45 \pm 5 95 \pm 5
3.3.2 Tensile Strength, min	2500 psi (17.2 MPa)
3.3.3 Elongation, min	275%
3.3.4 Tensile Stress at 100% Elongation, min	900 psi (6.21 MPa)
3.3.5 Compression Set, Method B, after 22 hr \pm 0.5 at 70°C \pm 2 (158°F \pm 3.6), max	55%
3.3.6 Tear Strength, min	320 lb per in. (56.0 kN/m)
3.3.7 Bond Strength to Metal, Shear Test, min	500 psi (3.45 MPa)

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