

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 3652

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

Issued 1-15-57
Revised

POLYTETRAFLUOROETHYLENE FILM

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. FORM: Film and film tape.
3. APPLICATION: Primarily for gaskets and parts requiring high frequency electrical insulating properties at temperatures up to 500 F.
4. TECHNICAL REQUIREMENTS:
 - 4.1 General:
 - 4.1.1 Color: Unless otherwise specified, background color shall range from white to medium gray. Color of natural spotting shall range from pale gray to dark brown.
 - 4.2 Properties: The product shall conform to the following requirements; tests shall be performed on the product supplied and in accordance with listed ASTM methods, insofar as practicable.

4.2.1 Tensile Strength at 77 F $\pm$ 2, psi, min	1500	ASTM D882-54T, Method A
4.2.2 Elongation at 77 F $\pm$ 2, %, min	100	ASTM D882-54T, Method A
4.2.3 Volume Resistivity at 50% R.H. and 77 F $\pm$ 2, ohm-cm, min	1.0 x 10 ¹⁴	ASTM D257-54T
4.2.4 Dielectric Strength (short time test - 0.005 in. thick specimen), v per mil, min	1100	ASTM D149-55T
4.2.5 Dielectric Constant at 10 ⁶ cycles	1.95 - 2.15	ASTM D150-54T
4.2.6 Specific Gravity	2.10 - 2.22	ASTM D792-50, Method A
 5. QUALITY: The product shall be uniform in quality and condition, clean, smooth, and free from foreign materials and from imperfections detrimental to fabrication, appearance, or performance of parts.