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The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

1. SCOPE AND CLASSIFICATION:

1.1 Scope:

This specification covers low, medium, and high density polyethylene and copolymers molding and extrusion material for general purpose use, for use as dielectric material, and for weather-resistant applications (see 6.1). For the purpose of this specification, the term polyethylene is used when referring to any of the types, classes, grades, and categories.

1.1.1 Coverage: This specification does not cover all the types, classes, grades, and categories of polyethylene, but only those that are most generally used by the Federal Government.

1.2 Classification:

1.2.1 Types, classes, grades, and categories (see table III): Polyethylene shall be of the types, classes, grades, and categories shown in tables I and II, as specified (see 6.2).

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 U.S. Government Publications:

Available from DODSSP Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

Fed. Std. No. 123	Marking for Shipment (Civil Agencies)
Fed. Test Method Std. No. 406	Plastics: Methods of Testing
Fed. Test Method Std. No. 601	Rubber: Sampling and Testing

MIL-P-116	Preservation, Methods of
MIL-STD-45662	Calibration System Requirements

MIL-STD-129	Marking for Shipment and Storage
MIL-STD-147	Palletized and Containerized Unit Loads 40" x 48" Pallets, Skids, Runners, or Pallet-Type Base

2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor, West Conshohocken, PA 19428-2959.

ASTM D 746	Method of Test for Brittleness Temperature of Plastics and Elastomers by Impact
ASTM D 1238	Method of Measuring Flow Rates of Thermoplastics by Extrusion Plastometer
ASTM D 1505	Method of Test for Density of Plastics by the Density-Gradient Technique