

AEROSPACE MATERIAL SPECIFICATION

SAE,

AMS-L-P-390A

Issued Cancelled SEP 2000 APR 2003

Superseding AMS-L-P-390

Plastic, Molding and Extrusion Material Polyethylene and Copolymers (Low, Medium, and High Density)

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of April, 2003, and has been superseded by ASTM D 4976, Polyethylene Plastics Molding and Extrusion Materials. The requirements of the latest issue of ASTM D 4976 shall be fulfilled whenever reference is made to the cancelled AMS-L-P-390. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications, noting that it is superseded by ASTM D 4976.

Cancelled specifications are available from SAE. Copies of ASTM D 4976 are available from ASTM, 100 Barr Harbor, West Conshohocken, PA 19428-2959 or www.astm.org.

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This document has been taken directly from U.S. Military Specification L-P-390C, Notice 1, Amendment 2 and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace L-P-390C, Notice 1, Amendment 2. Any part numbers established by the original specification remain unchanged.

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