

INCH-POUND

A-A-59464

11 September 2001

SUPERSEDING

MIL-P-20689D

12 February 1988

COMMERCIAL ITEM DESCRIPTION

PLASTIC PLASTISOL (FOR COATING METALLIC OBJECTS)

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

1. **SCOPE.** This CID covers plastisol for general hot dip applications.

2. **SALIENT CHARACTERISTICS.**

2.1 **Material.** Material selection is the prerogative of the manufacturer as long as all articles submitted to the Government fully meet the physical characteristics of this CID. The coating system shall consist of a two part primer/plastisol system. The plastisol shall consist of a dispersion of polyvinyl chloride in a suitable plasticizer or mixture of plasticizers, and other ingredients such as pigments and chemicals that provide protection against deterioration from heat and light. The primer shall be suitable for use with the plastisol. The materials shall be in accordance with (IAW) the manufacturers material specifications.

2.2 **Hardness.** The cast fused plastisol shall have a Durometer "A" hardness of 65 ± 5 when tested IAW ASTM D2240.

2.3 **Density.** The plastisol shall have a density of 9.4 - 10.5 pounds per gallon (lbs/gal) (1.13 - 1.26 grams per cubic centimeter (g/cm^3)).

2.4 **Tensile strength.** The cast fused plastisol shall have a tensile strength of not less than 1300 pounds per square inch (psi) (9.0 MegaPascals (MPa)) when tested IAW ASTM D882.

2.5 **Elongation at break.** The cast fused plastisol shall have a minimum elongation at break of 350 percent (%) when tested IAW ASTM D882.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent by letter to: U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-TR-E/AEIT, Warren, MI 48397-5000

AMSC N/A

FSC 8030

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2.6 Color. Unless otherwise specified (see 6.1), the color of the dispersed plastisol shall be black.

2.7 Fungus resistance. The plastisol shall contain an additive or additives for fungus resistance.

2.8 Performance. When applied IAW the manufacturers instructions and recommendations, the plastisol shall form a coating on metallic objects exhibiting good adhesion characteristics, providing protection from abrasion and/or impairing a comfortable feel.

3. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, IAW paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4. PRODUCT CONFORMANCE.

4.1 Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

4.2 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

4.3 Market acceptability. The manufacturers shall provide products which have a proven market record based on the number of items sold, length of time the product has been on the market, and reliability and performance of the products as required under the contract or solicitation.

5. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order (see 6.1).

6. NOTES.

6.1 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this CID.
- b. If color of plastisol is other than as specified (see 2.6).
- c. Packaging requirements (see 5).

6.2 Intended use. Plastisols conforming to this CID are intended to be used to form protective coatings on metallic objects.

6.3 Material Safety Data Sheets (MSDS). Contracting officers will identify those activities requiring copies of completed MSDSs prepared in accordance with FED-STD-313. The pertinent Government mailing addresses for submission of data are listed in FED-STD-313; and 29 CFR 1910.1200 requires that the MSDS for each hazardous chemical used in an operation must be readily available to personnel using the material. Contracting officers will identify the activities requiring copies of the MSDS.

6.4 Address for obtaining copies of reference documents.

6.4.1 The Code of Federal Regulations (CFR) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

6.4.2 Source of documents. Copies of ASTM D882 “Standard Test Methods for Tensile Properties of Thin Plastic Sheeting” and ASTM D2240 “Standard Test Method for Rubber Property-Durometer Hardness” are available from the American Society For Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

6.5 Keywords.

Formulated coatings

Grips

Handles

Vinyl dip

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FSS

Custodians:

Army - AT

Navy - SH

Air Force - 84

Preparing Activity:

Army - AT

(Project 8030-0784)

Reviewers:

Army - MR

Navy - AS, CG

Air Force - 99