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Issue Date:	03/01/16
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Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

PIPE COATING

Plastic Films and Wraps, For Use With Grease Coating

1. SCOPE

This specification covers plastic film and wrap which is used with grease coating to provide corrosion protection of irregularly shaped pipeline components.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) D-882, "Standard Test Method for Tensile Properties of Thin Plastic Sheeting."
- 2.2 ASTM International (ASTM) D-149, "Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies."
- 2.3 United States Department of Transportation (DOT), Code of Federal Regulations, Title 49, Part 192, "Transportation of Natural and Other Gas by Pipelines Minimum Safety Standards."

NOTE: Unless otherwise specified, the editions of the above documents incorporated by DOT 49 CFR 192 are applicable. Documents not incorporated by DOT 49 CFR 192 will be the most recent edition.

3. TERMINOLOGY

3.1 General

- 3.1.1 "Southwest Gas," "Southwest" or "SWG" wherever used in this specification and other related documents will refer exclusively to Southwest Gas Corporation.
- 3.1.2 The terms "approved," "as approved," "satisfactory," "as directed," "or equal" or other similar terms wherever used in this specification and other related documents will mean "as determined by Southwest Gas," unless specifically stated otherwise.
- 3.1.3 "Product Information Package" or "PIP" wherever used in this specification and other related documents will mean the required technical product information that a manufacturer must submit to Southwest to determine if the product is suitable for use by Southwest, unless specifically stated otherwise.



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4. MATERIALS AND MANUFACTURING

- 4.1 Wrap or film material shall be polyvinylidene chloride or polyethylene, respectively.
- 4.2 Total thickness shall be 0.0015 inches \pm 0.0003 inches.

5. PERFORMANCE REQUIREMENTS

- 5.1 Tensile strength shall be two pounds per inch of width at 77°F and 50% relative humidity as determined by ASTM D-882, Method A.
- 5.2 Minimum elongation before breaking shall be 150% at 77°F and 50% relative humidity as determined by ASTM D-882, Method A.
- 5.3 The dielectric strength of the material shall be a minimum of 2000 volts/mil, as determined by ASTM D-149.

6. INSPECTION

- 6.1 Successful review of the Product Information Package (PIP), as well as any future reference by SWG to the Seller's part number or internal code number in any future contract or purchase, will mean only that no conflict with the specification was found, and will not relieve the seller from meeting all the requirements of this specification.
- 6.2 SWG retains the option to inspect the manufacture and testing of any and all materials, products or systems sold to SWG.
- 6.3 SWG will make appropriate inspections and tests of any and all materials, products or systems supplied to this specification. SWG will have the right, at their option, to reject any material, which fails to conform to this specification. Any such rejection may take place at the manufacturer's facility; the supplier's warehouse or any subsequent delivery location, before or after SWG assumes possession. Notice of the rejection will be made promptly to the supplier by SWG. The defective product will be replaced or returned for credit at the manufacturer's expense.
- 6.4 Any changes in the manufacturing of previously approved materials, products or systems described in this material specification for sale to SWG must be approved by SWG's Engineering Staff. **Failure to obtain SWG's approval may be cause for rejection and disqualification as an approved supplier.**



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

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7. CERTIFICATION

The manufacturer's or supplier's certification will be furnished to SWG. This certification will state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that all requirements have been met. When specified in the purchase order or contract, a report of results will be provided.

Upon the request of Southwest, the certification of an independent third party indicating conformance to the specification may be considered at Southwest's expense.

8. SAFETY DATA SHEETS

In accordance with law, the seller will supply Safety Data Sheets for all applicable items supplied under this specification to the following:

- 1) The Receiving Location
- 2) Engineering Staff
- 3) Southwest Gas Corporation
Corporate Safety
Mail Station LVA-120
P.O. Box 98510
Las Vegas, NV 89193-8510

9. PACKAGING AND PACKAGE MARKING

9.1 Polyvinylidene chloride shall be packaged as coreless rolls in 50 feet lengths.

9.2 Polyethylene rolls shall be packaged on cores with an inside diameter of 1-1/2-inch and shall contain 500 lineal feet of film.

10. STOCK CLASS DESCRIPTION

POLYVINYLIDENE CHLORIDE:

WRAP, PLASTIC, THREE-PLY POLYVINYLIDENE CHLORIDE, CLEAR, _____-INCH x 50 FEET x 0.0015, CORELESS ROLL.

POLYETHYLENE:

WRAP FILM PLASTIC, POLYETHYLENE, CLEAR, _____-INCH x 500 FEET x 0.0015.