

Specification for

**Polymeric film for use as a
protective sleeving for buried
iron pipes and fittings
(for site and factory
application)**

ICS 83.140

Confirmed February 2011

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents

AVA

Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Sector Board for Engineering to Technical Committee PSE/10, Iron pipes and fittings, upon which the following bodies were represented:

- Adhesive Tape Manufacturers Association
- British Foundry Association
- Ductile Iron and Pipe Committee
- Institute of British Foundrymen
- Institution of Mechanical Engineers
- Institution of Water and Environmental Management
- Pipeline Protection Association
- Society of British Water Industries
- Water Companies Association
- Water Research Centre
- Water Services Association of England and Wales

This British Standard, having been prepared under the direction of the Engineering Sector Board, was published under the authority of the Standards Board and comes into effect on 15 November 1996

© BSI 1996

First published June 1981
Second edition November 1996

The following BSI references relate to the work on this standard:
Committee reference PSE/10
Draft for comment 91/82094 DC

ISBN 0 580 25573 5

Amendments issued since publication

Amd. No.	Date	Text affected

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
Introduction	iii
Specification	
Section 1. General	
1.1 Scope	1
1.2 Normative references	1
1.3 Definitions	1
1.4 Appearance	1
Section 2. Tubular polymeric film for site application	
2.1 Composition	2
2.2 Additives and residuals	2
2.3 Reworked material	2
2.4 Film structure	2
2.5 Dimensions	2
2.6 Properties	2
2.7 Marking	3
2.8 Packaging, distribution and storage	3
Section 3. Sheet polymeric film for factory application	
3.1 Composition	4
3.2 Additives and residuals	4
3.3 Reworked material	4
3.4 Film structure	4
3.5 Dimensions	4
3.6 Mechanical properties	4
3.7 Reel parameters	5
Section 4. Factory application of film to pipe	
4.1 Adhesive	6
4.2 Application of hot melt adhesive to film	6
4.3 Adhesive joint type tests	6
4.4 Application of film to the pipe surface	6
4.5 Marking	7
Section 5. Certification	
5.1 Manufacturer's certificate	8
Section 6. Repair of damaged sleeving before or during installation of pipeline	
6.1 General	9
6.2 Repair material	9
Tables	
1 Layflat width of tubular polymeric film for various sizes of iron pipe	2
2 Required mechanical properties for the two types of site-applied sleeving	3
3 Required mechanical properties for the three types of factory-applied sleeving	5
Figures	
1 Position of film on spigot end of pipe	7
2 Position of film on socket end of pipe	7
List of references	Inside back cover

Foreword

This British Standard has been prepared by Technical Committee PSE/10 and supersedes BS 6076 : 1981 which is withdrawn.

Section 2 of this standard is based on the first publication of BS 6076 : 1981 and is exclusively for tubular polymeric sleeving for site application.

Sections 3 and 4 are exclusively for factory application of sheet form polymeric film to ductile iron pipe and are based on current practices and on tests carried out by the Ductile Iron Pipe Association, the Water Research Centre and sleeving film manufacturers.

Product Certification

Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing product surveillance, which may be coupled with assessment of a supplier's quality systems against the appropriate Part of BS EN ISO 9000.

Enquiries as to the availability of third party certification schemes will be forwarded by BSI to the Association of Certification Bodies. If a third-party certification scheme does not already exist, users should consider approaching an appropriate body from the list of association members.

This standard is not intended to limit the development of alternative materials which perform at least as well in terms of performance required by this standard.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Introduction

This British Standard has been based on the current practices used in protecting underground iron pipes and fittings from corrosion in aggressive soils.

Polymeric film in the tubular form was first used as a protection medium in America in 1951. It has proved to be an effective way of combating corrosion and is now used for this purpose throughout the world. The tubular film is sleeved over the pipes and fittings immediately prior to laying and the overlap at the joints made to provide a close fit along the pipeline.

Polymeric film in the sheet form is applied to the pipe in the factory by the cigarette wrapping technique. Joints and fittings in a factory sleeved pipeline are protected in situ by suitable means.

