TYTON® POLYBOSS
LOOSE POLYETHYLENE SLEEVING

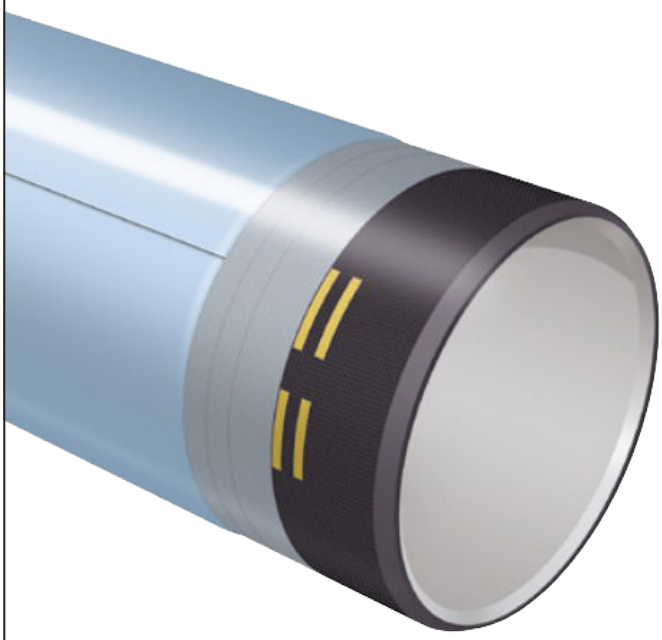
Cost Effective External Protection for Ductile Iron Pipelines Buried in Aggressive Soils

DIMAX
Quality you demand

POLYETHYLENE SLEEVING

Loose polyethylene sleeving is used as the principle means of providing external protecton for ductile iron pipelines in aggressive soils, both in Australia and overseas.

The technique was developed in the United States of America in the 1950's and has been used in Australia since 1966.



OVERVIEW

POLYBOSS performance exceeds AS 3680 requirements to maximise performance of all system elements.

Application in accordance with AS 3681 assures consistent optimum configuration.

Training, assessment, accreditation and feedback provided by the CENTURY PLUS® Program for pipe layers maximises correctness of installations.

Fitness for purpose and assurance of performance with PIQS (Pipeline Installation Quality System) QA system of installation.

Dimax soil testing can be used in assessing the need for corrosion protection.

Proven, reliable protection system provides confidence in installations with over 30,000km applied in the last 30 years across Australia.

Cost effective means of protection at around one tenth the cost of barrier coatings. With extensive experiences here and overseas, it is expected that the effective service life of the systems will exceed 100 years.

REQUIREMENTS

Ductile Iron Pipelines are strong and tough. Properly applied sleeving makes sure this strength and toughness is not reduced by corrosion and increases the likelihood that the pipeline will be still carrying water in 100 years and more.

APPLICATION

The need for POLYBOSS depends on the type of soil, class and diameter of ductile iron pipe, and the required service life of a pipeline.

In soils that are aggressive and where either the time or the cost of soil assessment is prohibitive, POLYBOSS is the quick and cost effective answer, giving peace of mind and an assurance of longterm performance.

Use of the Linear Polarisation Resistance (LPR) method – a special electro-chemical soil testing technique, quickly determines the aggressivity of the soil by measuring its polarisation resistance.

TECHNICAL DATA

Colours
Blue - Water intended for human consumption
Lilac - Re-use water
Cream - Sewage

Nominal Thickness
Minimum 200µm

Ultimate Tensile Strength
Minimum 50N on weathered film

Elongation
Minimum 100% on weathered film

Impact Resistance
Greater than 900g on weathered film

Tear Resistance
Greater than 25N on weathered film

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FOR 5.7 METRE EFFECTIVE LAYING LENGTH OF PIPE

NOMINAL SIZE DN	Lay Flat Width mm	Pipe per Roll	Pipeline per Roll m	Weight per Roll kg	Tape* required per Pipe m	Strap length required per Joint	Tape* required per Fitting average m
80	350	30	172.5	24.6	3.6	1.0	3
100	350	30	172.5	24.6	3.6	1.0	3
150	425	25	143.8	24.9	5.0	1.1	5
200	525	20	115.0	24.6	6.6	1.4	6
225	635	16	92.0	23.8	7.5	1.5	6
250	635	16	92.0	23.8	8.3	1.6	7
300	725	14	80.5	23.8	9.9	1.7	8
375	875	12	69.0	24.6	11.6	2.1	10
450	1100	9	51.8	23.2	13.8	2.2	12
500	1100	9	51.8	23.2	14.9	2.4	13
600	1270	8	48.0	24.8	17.6	2.8	15
750	1500	6	36.0	21.9	21.4	3.3	18

* Metres per roll of PVC packing tape = 75m