

## SUBMITTAL FOR ATLANTA PIPE POLYETHYLENE (PE) PIPES FOR DOMESTIC WASTE-WATER SYSTEM

### SCOPE

This standard specifies the required properties of pipes made from polyethylene (PE) to be used for buried water mains and service and for water supply above ground both inside and outside buildings. In addition, it specifies some general properties of the material from which these pipes are made, including a classification scheme. This standard applies to pipes with a nominal pressure of PN 6, PN 8, PN 10, PN 12.5 and PN 16, and nominal outside diameters from 20 mm to 630 mm, intended to be used for the conveyance of water under pressure at temperatures between 0° C and 40° C for general purposes, as well as for the supply of drinking water.

### SPECIFICATION

The pipes shall be manufactured from polyethylene containing only those antioxidants, UV stabilisers and pigments necessary for the manufacture of pipes conforming to this specification and for its end use, including weld ability when it is possible. The pipes for drinking water shall be either black or blue or black with blue stripes. For black pipes, the carbon black content in the compound shall be  $(2.25 \pm 0.25\%)$  by mass, when measured in accordance with ISO 6964.

The use of colour blue or black with blue stripes shall be specified in accordance with national requirements. The material for the stripes shall be of the same type of resin as used in the base compound for the pipe. The product is conforming to the DIN 19535 (Deutsches Institut für Normung) and DIN EN 1519 (European Standard), the governing manufacturing quality standards. All pipe and fittings shall be manufactured in the Philippines.

### INSTALLATION

Fusion compatibility: If pipes manufactured from PE 80 or PE 100 are to be joined by butt fusion or using electro fusion fittings mixed different pipe materials, the joints shall conform to the requirements specified in table 8 of PNS/ ISO 4427: 2002 standard. Installation shall comply with the latest installation instructions published or with supervision by Atlanta Industries, Inc. and shall conform to all applicable plumbing and building code requirements. The system shall be protected from chemical agents not compatible with PE compounds. The system shall be tested after installation through pressure test for 24 hours on the design or nominal working pressure set by the standards.

**WARNING!** Never test with or transport/store compressed air or gas in PE pipe and fittings. Doing so can result in explosive failures and cause severe injury or death.

### REFERENCE STANDARD

**PNS/ ISO 4427: 2002**

: Polyethylene (PE) pipes for Water Supply - Specifications



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**NOTE: Theoretical weight/s is based on a 5 meter pipe length.**

NOMINAL OUTSIDE DIAMETER		WALL THICKNESS	THEORETICAL WEIGHT
<i>mm</i>	<i>in</i>	<i>mm</i>	<i>kgs</i>
40	1-1/4	3.00	1.68
50	1-1/2	3.00	2.14
56	1-3/4	3.00	2.41
63	2	3.00	2.73
75	2-1/2	3.00	3.27
90	3	3.50	4.59
110	4	4.20	6.74
160	6	6.20	14.45
200	8	6.20	20.56
250	10	7.80	32.18
315	12	9.80	45.34

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