Pro-Line PVC Replacement

Pro-Line is United Poly Systems PVC replacement product for power utility, electrical, telecom, energy and infrastructure applications and can also be used for water flow line/water transmission. Pro-Line is UL listed and is available in 20-, 40- and 50-ft lengths.

Pro-Line is manufactured in IPS (Iron Pipe Size) size from ¾- to 8-in. diameter. Pro-Line is manufactured in grey or black with striping options. It is available with a factory-attached coupler, so the product is ready for installation once delivered to the project site.

Benefits

- Flexibility
- More installation methods available for Pro-Line when compared to copper pipe
- Better resistance to cold/ultra-cold temperatures Durable; crush and impact resistant
- No corrosion when compared to copper pipe
- No solder joints when installing. HDPE fusion joints are stronger than solder joints.
- Lower cost
- Longer life span of HDPE, 50 to 100 years

Installation Methods

Pro-Line can be installed in existing conduit or via plow, direct burial or HDD (horizontal directional drilling) installation methods.

Print Line Information

Pro-Line is sequentially marked and identified along its outer length in contrasting color. The print interval is every 2 ft and includes the following:

MANUFACTURER'S NAME: United Poly Systems PRODUCT SIZE/SDR

PRODUCTION CODE Date, Location, Period SPECIFICATION

LENGTH OF CONDUIT (in feet) on reel

Optional custom print lines are available and may include customer name, project name, and application.

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Options

Optional custom print lines are available and may include customer name, project name, application and lightning bolt.

Pull tape is offered in several tensile strengths. United Poly Systems standard pull tape is 1130 lb strength, while other options include strengths from 200 to 2500 lb.

HDPE conduit material definition according to ASTM F2160

PROPERTY	RANGE OR MINIMUM REQUIREMENT	UNITS	CELL CLASS	TEST METHOD
Density	0.941 - 0.955	g/cc	3	ASTM D 792 or 1505
Melt Index	< 0.25 - 0.40	g/10 minutes	3 or 4	ASTM D 1238
Flexural Modulus	110,000 - 160,000	psi	4 or 5	ASTM D 790
Tensile Strength	3000 - 4000	psi	4 or 5	ASTM D 638
Environmental Stress Crack Resistance	F20 > 192	Hours (condition C)	3 or 4	ASTM D 1693
HDB	Not Defined		0, 1, 2, 3 or 4	ASTM D 2837

These are nominal values and used as guidelines only.
This is not a product specification and does not indicate minimum or maximum operating values.

The material requirements for HDPE conduit are classified in accordance with ASTM Standard D3350 “Standard Specification for Polyethylene Plastic Pipe and Fittings Materials.” ASTM D3350 defines important physical properties of HDPE materials into ranges, or cell classes, so that each property can be defined within a range that is appropriate for the application. The product has been NSF international tested to assure compliance with UL 651A on applicable sizes.

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