

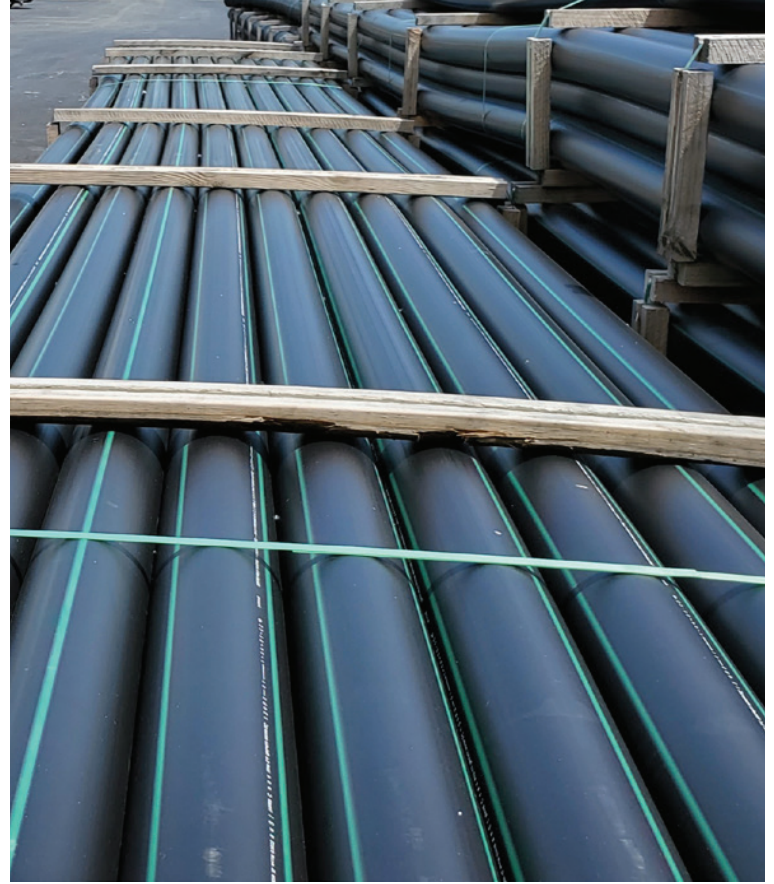
High-Density Polyethylene Pipe for Sewage and Reclaimed Water

United Poly Systems Sewer-Line HDPE pipe is used for sewage applications in the water market and reclaimed water applications in the renewables market.

HDPE is the ideal material for sewer lines: it won't break or crack when exposed to cold weather or earthquakes, it is durable and doesn't leak, and is resistant to abrasions and corrosion, so it won't be affected by the effluent in sewage and wastewater.

Sewer-Line is used for transporting sewage in cities, municipalities and large infrastructure projects. Specific applications include force main sewers and gravity flow sewers.

Sewer-Line can also be used to transport reclaimed water. Reclaimed water is municipal or industrial wastewater that can be reused. Applications include diverting wastewater into a system for use in non-potable uses like agriculture, toilets and textile/paper manufacturing.



Product Information

Sewer-Line is gray with purple stripes for reclaimed water applications and black with green stripes for sewer applications. UPS manufactures Sewer-Line in IPS and DIPS ¾ to 26-inch diameters. Sewer-Line is made of PE4710 material.

The material requirements for Sewer-Line meets or exceeds ASTM Standard F714

“Standard Specification for Polyethylene Plastic Pipe and Fittings Materials.” ASTM Standard F714 defines 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.

Print Line Information

Sewer-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

REQUIRED MATERIAL SPECIFICATION

LENGTH OF CONDUIT (in feet)

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

PE4710 Typical Physical Properties

Property	Typical Value	Units	Test Method
Density with minimum 2% carbon black	0.960	g / cc	ASTM D 792 or 1 505
High Load Melt Index	8.5	g / 10 minutes	ASTM D 1238
Melt Index	0.08	g / 10 minutes	ASTM D 1238
Flexural Modulus	160,000	psi	ASTM D 790
Tensile Strength @ yield (2 in / min)	3600	psi	ASTM D 638
Tensile Elongation @ Break	740%		ASTM D 638
Thermal expansion	1.0 x 10 ⁻⁴	in / in / 0	ASTM D 696
HDB 73.4°F (23°C)	1600	psi	ASTM D 2837
HDB 140°F (60°C)	1000	psi	ASTM D 2837
PENT	> 500	hr	ASTM F1473
Brittleness Temperature	< -103°F (-75°C)	°F	ASTM D 746
Cell Classification	445574C (black only)		ASTM D 3350

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