

# VINYLTECH GRAVITY SEWER

## TECHNICAL DATA SUBMITTAL



### CONFORMANCE

These specifications designate the requirements for manufacturing and installing Vinyltech PVC sewer pipe.

**ASTM D3034** - Standard Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings

**ASTM F679** - Standard Specification for Poly (Vinyl Chloride) (PVC) Large-Diameter Plastic Gravity Sewer Pipe and Fittings

**ASTM D3212** - Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

**ASTM F477** - Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe

**ASTM D1784** - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

**ASTM D2152** - Standard Test Method for Extruded Poly (Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion

**ASTM D2444** - Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of Tup (Falling Weight)

**ASTM D2321** - Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and other Gravity-Flow Applications

**ASTM D2412** - Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading

**IAPMO (File No. 2128)** - Uniform Plumbing Code (UPC) - Vinyltech sewer pipe is IAPMO listed for ASTM D3034 SDR 35 4-15 inch and SDR 26 4-12 inch.

### PIPE COMPOUND

The pipe shall be extruded from compounds meeting the requirements of Cell Classification 12454, as defined in ASTM D1784, Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.

### PIPE

Vinyltech pipe shall be manufactured in accordance with ASTM D3034 and ASTM F679.

### GASKET JOINT

The gasket shall be reinforced with a steel ring and meet the requirements of ASTM F477. Vinyltech pipe shall have an integral bell end with a locked-in factory installed gasket and shall meet the requirements of ASTM D3212.

### MARKING

The pipe shall be marked in accordance with ASTM D3034 and F679.

### QUALITY CONTROL

Requirements for manufacturing and testing are conducted in strict accordance with ASTM specifications and are outlined in ASTM D3034 and F679.

### INSTALLATION

Recommended installation procedures of Vinyltech Corporation are outlined in ASTM D2321, Underground Installation of Flexible Thermoplastic Sewer Pipe.

### ASSEMBLING THE PIPE

Assembly of Vinyltech Gravity Sewer pipe is easily accomplished. A depth of entry mark is on each spigot end to serve as a visual check for rapid, accurate joint inspection. **Do not over insert.**

- 1) Remove any mud, sand, or other foreign matter from the belled and spigot ends of the pipe. Carefully clean the gasket area.
- 2) With a clean applicator (a brush or hand) lubricate the entire surface of the pipe from the spigot end to the depth of entry mark and the contact surface of the gasket with **Vinyltech Brand Lubricant**.
- 3) Brace the bell to avoid disturbing the already installed joints. Align the pipe, insert the spigot into the bell and push.
- 4) **Do not insert past the entry mark line.**



## ASTM D3034 SDR 35/PS 46 PVC Sewer Pipe

NOMINAL SIZE		OUTER DIAMETER (IN)	MINIMUM WALL (IN)	14' LENGTH WEIGHT (LB/100')	20' LENGTH WEIGHT (LB/100')
(IN)	(mm)				
4	100	4.215	0.120	105.7	104.2
6	150	6.275	0.180	232.6	229.0
8	200	8.400	0.240	417.8	410.3
10	250	10.500	0.300	657.4	643.9
12	300	12.500	0.360	944.1	922.7
15	375	15.300	0.437	1390.0	1361.0

## ASTM D3034 SDR 26/PS 115 PVC Sewer Pipe

NOMINAL SIZE		OUTER DIAMETER (IN)	MINIMUM WALL (IN)	14' LENGTH WEIGHT (LB/100)
(IN)	(mm)			
4	100	4.215	0.162	150.0
6	150	6.275	0.241	320.0
8	200	8.400	0.323	580.0
10	250	10.500	0.404	900.0
12	300	12.500	0.481	1300.0
15	375	15.300	0.588	2000.0

## ASTM F679 PS 46 PVC Sewer Pipe

NOMINAL SIZE		OUTER DIAMETER (IN)	MINIMUM WALL (IN)	14' LENGTH WEIGHT (LB/100)	20' LENGTH WEIGHT (LB/100)
(IN)	(mm)				
18	475	18.701	0.499	2115.0	2095.0
*21	560	22.047	0.588	2962.0	-
*24	630	24.803	0.661	3740.0	-

## ASTM F679 PS 115 PVC Sewer Pipe

NOMINAL SIZE		OUTER DIAMETER (IN)	MINIMUM WALL (IN)	14' LENGTH WEIGHT (LB/100)
(IN)	(mm)			
18	475	18.701	0.671	2790.0
*21	560	22.047	0.791	3940.0
*24	630	24.803	0.889	4980.0

\*Northern Pipe Products

## The Rieber Sealing System

The Rieber system provides a proven pipe joint with an excellent track record in the field. It is the fastest growing system in the world because of its many advantages.

- Factory installed, locked-in gasket
- The pipe bell forms over the gasket, making a perfect fit
- Avoids the possibility of installing the wrong gasket
- Reduces installation problems
- The locked-in gasket eliminates gasket roll-out during joining
- The gasket is molded vs. extruded and spliced
- Works equally well under pressure or vacuum
- Three sealing points achieved vs. two
- **LEAK-PROOF JOINTS**
- **“THE WORLDS BEST JOINT”**