



## Insulated Pex

### Product Information:

HeatFlex/FiberFlex/FiberFlex Pro pipes are flexible, pre-insulated pipe systems with a complete range of fittings and joints in available pipe dimensions. The semi-flexible polyurethane foam with its closed cells has a high insulation value, is Freon-free and environmentally friendly. The foam is molded directly around the carrier pipe, followed by extrusion of the jacket; no spacers are required; therefore, thermal bridges are eliminated.

A proprietary Polymer membrane is incorporated between the PUR foam and PE outer jacket to avoid the migration of cell gases through the jacket over the long term. This foil material is made up of a special polymer with PEL adhesive on both sides, bonding the foam to the casing. The smooth polyethylene (LDPE) jacket is strong and can resist any impacts or blows incurred during transport or installation. The jacket pipe is resistant to both high and low temperatures and is UV-treated. In the solid-foamed flexible system, the carrier pipe, polyurethane foam, and LDPE jacket pipe are bonded together, eliminating the risk of water penetration along the carrier pipe. In operation, the system is held in place by the soil friction. The plastic properties of the Pex carrier pipe are utilized to absorb thermal expansion; consequently, these Pex pipes are self-compensating, and expansion need not be considered. The PEX carrier pipe features an EVOH external oxygen diffusion barrier, which prevents oxygen from diffusing into the water. The PEX-A carrier pipe is also NSF61 certified and suitable for potable/sanitary water applications

Insulated Pex is ideal for applications that include heat transfer for:

- Snow and Ice Melt Systems
- District heating
- Hydronic piping
- Process piping
- Marine piping

### Single Insulated Pex (One Pipe)

A single cross-linked polyethylene (PEXa) pipe with an EVOH oxygen diffusion barrier. Available in pipe sizes from 1" to 5" nominal OD (25 to 125 mm).

### **Double Insulated Pex (Two Pipes)**

Two cross-linked polyethylene (PEXa) pipes with an EVOH oxygen diffusion barrier. Pipes are insulated from each other.

Double-insulated PEX combines supply and return pipes in one for faster installation in a smaller trench.

Available in pipe sizes from 1" to 3" nominal OD (25 to 75 mm).

### **Heat Flex Fitting System**

Tricon Force Piping Solutions offers top-quality clamp x clamp or press style fittings in a wide variety, such as weld adaptors, couplings, elbows, tees, and PEX to NPT adaptors. When connecting to NPT thread, metric to NPT thread adapters are also offered. The installation of the press connector requires the pipe end to be expanded before placing the metal insert into the pipe; this is followed by the compression of the outer sleeve onto the pipe's outer surface with the use of industry industry-standard PEX press tool.

To install NPT thread or weld end clamp connectors, expansion of the pipe end is not required. Compression of the outer sleeve is done with use of a conventional nut driver without the need of any special tooling.

### **FiberFlex/FiberFlex Pro Fitting System**

Tricon Force Piping Solutions offers top-quality press-style fittings in a wide variety, such as weld adaptors, couplings, elbows, tees, and PEX to NPT adaptors. When connecting to NPT thread, metric to NPT thread adapters are also offered. The installation of the press connector requires pipe end to be expanded before placing the metal insert into the pipe; this is followed by the compression of the outer sleeve onto the pipe's outer surface with use of industry standard PEX press tool.

To install NPT thread or weld end clamp connectors, expansion of pipe end is not required. Compression of outer sleeve is done with use of conventional nut driver without the need of any special tooling.

### **Temperature-Pressure Ratings:**

- 87 psi (6 bar) @ 176°F (80°C) – Heat Flex
- 145 psi (10 bar) @ 203°F (95°C) – FiberFlex
- 188 psi (16 bar) @ 221°F (105°C) – FiberFlex Pro