

## RIIFO PEX-a Tubing Specifications

### Product Information

With RIIFO's frontier extrusion and inline QC technology along with a multi-component gravimetric dosing technology, RIIFO PEX-a tubing goes through some of the most rigorous testing to produce quality tubing. RIIFO uses a short-wave infrared technology to create high-speed, uniform, and stable crosslinking during production. RIIFO PEX-a tubing is manufactured using the Engle method of hot crosslinking because the polyethylene molecules are linked during the extrusion process when the polyethylene is above the melting point. This method results in the highest degree of crosslinking of all PEX types of up to 85%. This combination creates the highest chlorine resistance (Class-5 listing) in the industry.

### Recommended Applications

RIIFO PEX-a tubing is recommended for use in plumbing systems, hydraulic applications, heating and cooling systems, and hydronics. Tubing may be installed in concrete, gypsum based lightweight concrete, sand, asphalt (in accordance with special guidelines) in or under wood flooring or behind wallboard or plaster. PEX-a is recommended in areas where there are bends and fittings would be needed – allowing the tightest bend radius for less fittings with changes in direction in a plumbing system.

### Handling and Installation

With little to no coil memory, RIIFO PEX-a tubing is more flexible than other tubing. Kinks in the tubing can be easily repaired with the proper use of a heat gun. It is, however, softer than metals and may be damaged by sharp objects. Use of these materials in hot and cold water distribution systems must be in accordance with good plumbing practices, applicable code requirements, and current installation practices available from RIIFO. RIIFO PEX-B tubing is manufactured to meet written national standards. Contact a RIIFO representative or the applicable code enforcement bureau for information about approvals for specific applications.

### Features & Benefits

- Available in red, blue and natural coils and sticks
- Tubing comes in ½" – 1" diameters and 100', 300', 500' coils and 20' sticks
- Composite up to 5 layers
- Maximum temperature and pressure: 73.4°F at 160 psi, 180°F at 100 psi, and 200°F at 80 psi
- Rated for continuous operation at 200°F at 80 psi
- Little to no coil memory for easier layout of the tubing
- Strongest, most durable, and most flexible option in PEX tubing
- Offers a greater durability in freeze/thaw cycles while keeping the integrity of the tube intact
- UV stabilized and chlorine resistant
- 25 year warranty as a RIIFO system

### Quality Assurance

When the product is marked with ASTM F876/F877 and CSA B137.5 designation, it affirms that the product was manufactured, inspected, sampled and tested in accordance with these specifications and has been found to meet the specified requirements. All RIIFO tubing is manufactured in ISO9001 facilities.

### Certifications

RIIFO PEX-a tubing has been tested for physical, performance, and health effects to NSF/ANSI61 and NSF/ANSI14.

ASTM F2023 –Tested and listed to the Class-5 chlorine resistance listing.

RIIFO PEX-a tubing has a UV rating/warranty of 90 days.

RIIFO PEX-a certifications include, but are not limited to:

ASTM F2023  
ASTM 876  
ASTM 877  
ASTM F1807  
ASTM F2159

ASTM F2098  
ASTM F1960  
NSF/ANSI 61  
NSF/ANSI 14  
CSA B137.5



## RIIFO PEX-a Tubing

### Pressure Loss Table

Expressed as PSI/ft.  
Flow Rate Pressure Loss

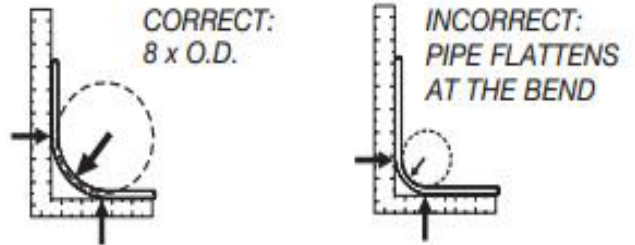
GPM	1/2"	3/4"	1"
0.5	0.005		
1	0.017	0.003	0.001
2	0.053	0.010	0.003
3	0.110	0.021	0.006
4	0.184	0.035	0.010
5	0.274	0.053	0.016
6	0.381	0.730	0.022
7	0.440	0.963	0.029
8		0.123	0.037
9		0.151	0.046
10		0.183	0.055
11		0.217	0.065
12		0.254	0.076
13		0.296	0.088
14			0.101
15			0.114

### Minimum Burst Pressure (PSI)

Per ASTM F876/F877

Size	73°F (23°C)	180°F (82°C)
1/2"	480	215
3/4"	475	210
1"	475	210

### Minimum Bend Radius



Note: RIIFO PEX-a tubing may be bent to a minimum of 8 x O.D. with approved bend support.

## RIIFO PEX-a Tubing

ASTM F876/F877

Stock Code	Tubing Size	O.D.	Wall Thickness	Nom I.D.	Weight per 100 ft.	Vol (gal) per 100 ft.
PXa12	1/2"	0.625±0.004	0.070+0.010	0.485	5.80	0.92
PXa34	3/4"	0.875±0.004	0.097+0.010	0.681	11.00	1.83
PXa1	1"	1.125±0.005	0.125+0.013	0.875	17.06	3.03