

Heat Seal[®]

HeatSeal[®] is a flexible insulated pipe system, designed for long and short water distribution networks and a variety of applications.

HeatSeal[®] piping systems are made of crosslinked polyethylene (PEX) with oxygen diffusion barrier. PEX is used for its long term stability, excellent thermal characteristics, and resistance to abrasion, corrosion and chemicals.

Insulation consists of flexible, CFC free PEX foam with excellent heat insulation properties.

Corrugated HDPE twin wall sheath provides a protective barrier against installation and backfill damage, superior weather resistance and water proofing.



Potable water transport, waste water, refrigeration, swimming pools, and agricultural applications are some of the many uses for this innovative product.



Adaptable to a variety of construction site conditions

HeatSeal[®] is delivered directly to the construction site in "cut to length" coils which allow for quick installation with the least number of joints. Flexibility and ease of transportation means easy installation and adaptability to practically all construction projects. Since our products require considerably narrower piping trenches, civil engineering costs are significantly reduced. HeatSeal[®] can bend around obstacles and the shortest route can be chosen, regardless of conventional pipeline construction procedures.



HeatSeal[®] Dual 97022 inside bend radius

HeatSeal[®] can also be used where trenching is not an option, such as horizontal drilling applications. A large selection of fittings & accessories offers solutions for every situation.

The inherent cost savings, incredible versatility and quality of materials mean there is absolutely no better answer available! Call us today!

Heat Seal Information

Pipe Size	Stock #	PEX OD	PEX wall	Sheath OD	Outside Bend Radius	Weight	Equivalent R-value****	Standard Length***
HeatSeal® Single Insulated PEX Pipe								
1" *	97011*	1.125" 28.58 mm	0.125" 3.18 mm	3" 75 mm	7-7/8" 0.20 m	0.43 lbs/ft 0.64 kg/m	R-8.07 (°F ft h)/BTU R-4.66 (°C m)/W	328' 100 m
1-1/4" I.D.** (40x3.7 mm)**	97012**	1.57" 40 mm	0.15" 3.7 mm	5" 125 mm	15-3/4" 0.40 m	1.19 lbs/ft 1.78 kg/m	R-8.14 (°F ft h)/BTU R-4.70 (°C m)/W	328' 100 m
1-1/2" I.D. (50x4.6 mm)	97013	1.97" 50 mm	0.18" 4.6 mm	5" 125 mm	19-3/4" 0.50 m	1.34 lbs/ft 2.00 kg/m	R-6.16 (°F ft h)/BTU R-3.56 (°C m)/W	328' 100 m
2" I.D. (63x5.7 mm)	97014	2.48" 63 mm	0.22" 5.7 mm	5" 125 mm	19-3/4" 0.50 m	1.55 lbs/ft 2.32 kg/m	R-4.67 (°F ft h)/BTU R-2.70 (°C m)/W	328' 100 m
2-1/2" I.D. (75x6.9 mm)	97015	2.95" 75 mm	0.27" 6.9 mm	6-1/4" 160 mm	21-5/8" 0.55 m	2.10 lbs/ft 3.14 kg/m	R-5.26 (°F ft h)/BTU R-3.04 (°C m)/W	328' 100 m
3" I.D. (90x8.2 mm)	97016	3.54" 90 mm	0.32" 8.2 mm	6-1/4" 160 mm	21-5/8" 0.55 m	2.50 lbs/ft 3.73 kg/m	R-3.85 (°F ft h)/BTU R-2.23 (°C m)/W	328' 100 m
4" I.D. (110x10.0 mm)	97017	4.33" 110 mm	0.39" 10.0 mm	7-7/8" 200 mm	23-5/8" 0.60 m	3.0 lbs/ft 4.5 kg/m	R-3.88 (°F ft h)/BTU R-2.24 (°C m)/W	328' 100 m
HeatSeal® Dual Insulated PEX Pipe								
1" Dual	97021	1.125" 28.58 mm	0.125" 3.18 mm	5" 125 mm	11-7/8" 0.30 m	1.19 lbs/ft 1.77 kg/m	R-4.91 (°F ft h)/BTU R-2.84 (°C m)/W	328' 100 m
1-1/4" I.D. Dual (2x 40x3.7 mm)	97022	1.57" 40 mm	0.15" 3.7 mm	6-1/4" 160 mm	19-3/4" 0.50 m	1.34 lbs/ft 2.00 kg/m	R-5.39 (°F ft h)/BTU R-3.12 (°C m)/W	328' 100 m
1-1/2" I.D. Dual (2x 50x4.6 mm)	97023	1.97" 50 mm	0.18" 4.6 mm	6-1/4" 160 mm	19-3/4" 0.50 m	2.38 lbs/ft 3.55 kg/m	R-3.75 (°F ft h)/BTU R-2.17 (°C m)/W	328' 100 m
2" I.D. Dual (2x 63x5.7 mm)	97024	2.48" 63 mm	0.22" 5.7 mm	7-7/8" 200 mm	39-3/8" 1.0 m	2.61 lbs/ft 3.90 kg/m	R-4.02 (°F ft h)/BTU R-2.06 (°C m)/W	328' 100 m

* Special order item subject to lead time of 8 weeks and minimum order.

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*** Shorter lengths are subject to a cut charge.

**** Based on heatloss per linear ft of pipe; evaluated with pipe buried 50 cm below ground.

$$\text{HeatLoss } q = \frac{\Delta T}{R} \times \text{linear length of pipe}$$

$$\text{For single pipe: } \Delta T = T_v - T_o$$

$$\text{For dual pipe: } \Delta T = \frac{(T_v + T_r)}{2} - T_o$$

R = Equivalent R-value

T_v = Supply Temp

T_r = Return Temp

T_o = Ground Temp at depth of pipe

Consult your local soil temperature charts.

PEX Pipe Specifications

Material: Crosslinked polyethylene (PEX-a) with O₂ barrier.

All sizes are Certified by NSF to NSF-61 & NSF-14.

1" PEX pipe is manufactured to ASTM F876.

Maximum operating temperature:

203°F @ 87 PSI (95°C @ 6 bar)

λ-value : 2.635 BTU in/(h ft² °F)

0.38 W/m²°K

Insulation Specifications

CFC free, microcellular, cross-linked polyethylene foam.

λ-value : 0.28 BTU in/(h ft² °F)

0.040 W/m²°K

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