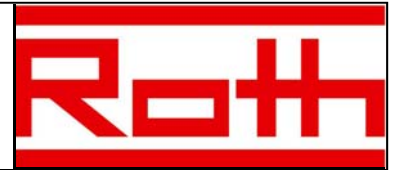


Submittal Data Sheet



Roth Part #	Item Description	Manufacturer
See chart below	X-PERT S5® PE-RT Hydronic Tubing	Roth Industries, Inc.

Job _____ Engineer _____
 Contractor _____ Representative _____

Application:
 Hydronic radiant heating and snow melting systems utilizing water or a water/glycol mix as the heat transfer media.
 May also be used as transfer lines for baseboard heating systems with a maximum operating temperature of 180°F.

Description:
 Roth X-PERT S5 is a five layer polyethylene of raised temperature (PE-RT) oxygen barrier tubing.
 The five-layer pipe consists of an oxygen barrier layer of ethylene vinyl alcohol polymer (EVOH) encapsulated between two layers of DOWLEX™ 2344 Polyethylene Copolymer Resin and two layers of adhesive.



Manufactured and tested according to the following standards:

Part #	Description	I.D. (O.D.)	Fluid Content per 100' (gal.)	Weight Per Coil
<input type="checkbox"/> 2352129000	3/8" Coil x 300'	.360 (.500)	0.53	12.6 lbs
<input type="checkbox"/> 2352129300	3/8" Coil x 1000'	.360 (.500)	0.53	42.0 lbs
<input type="checkbox"/> 2352159000	1/2" Coil x 300'	.485 (.625)	0.96	16.2 lbs
<input type="checkbox"/> 2352159300	1/2" Coil x 1000'	.485 (.625)	0.96	54.0 lbs
<input type="checkbox"/> 2352159301	1/2" Coil x 2000'	.485 (.625)	0.96	108.0 lbs
<input type="checkbox"/> 2352199100	5/8" Coil x 500'	.584 (.750)	1.39	38.0 lbs
<input type="checkbox"/> 2352199300	5/8" Coil x 1500'	.584 (.750)	1.39	114.0 lbs
<input type="checkbox"/> 2352229000	3/4" Coil x 100'	.681 (.875)	1.89	10.3 lbs
<input type="checkbox"/> 2352229100	3/4" Coil x 500'	.681 (.875)	1.89	51.5 lbs
<input type="checkbox"/> 2352229300	3/4" Coil x 1000'	.681 (.875)	1.89	103.0 lbs
<input type="checkbox"/> 2352289000	1" Coil x 100'	.875 (1.125)	3.12	16.7 lbs
<input type="checkbox"/> 2352289100	1" Coil x 500'	.875 (1.125)	3.12	83.5 lbs

- ASTM F2623** - Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing
- DIN 4726** - Oxygen Diffusion
- PPI TR-3** - Standard Grade Hydrostatic Ratings:
 180°F @ 100psig; 73°F @ 200psig
 82°C @ 6.89 bar; 23°C @ 13.79 bar

Technical Specifications:
 Thermal Conductivity - 0.237 Btu/h/ft/°F
 Linear Expansion Rate - 1.1"/10°F/100ft
 - 27.94mm/5.56°C/30.48m

Approved fittings systems:
 May be joined using insert fittings and clamps certified to ASTM F-877, F-1807 F-2159 or F-2098.

A White Paper providing a technical assessment of the suitability of Roth's 5-layer X-PERT S5 brand PE-RT pipe for use in the North American hydronic heating market and comparison of standards and performance characteristics with PEX

Effective Date: August 2011