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Material Specification Sheet Radiant PEX-AL-PEX (PAP) Tubing

Description:

Radiant PEX-AL-PEX (PAP) is multi-layered, cross-linked polyethylene tubing with an aluminum inner core for radiant floor heating and snow melting applications and distribution piping. PAP is manufactured with an integral aluminum oxygen layer that limits oxygen diffusion through the walls of the tubing to less than 0.006g/m³/day at 40° C (104°F) water temperature.

DESCRIPTION	LENGTH	NOM. ID	NOM. OD	MIN. BEND RADIUS (IN)	FLUID CAPACITY (GAL/1000')
1/2" PEX	300'	0.47"	0.63"	4.0"	9.1
1/2" PEX	500'	0.47"	0.63"	4.0"	9.1
1/2" PEX	1000'	0.47"	0.63"	4.0"	9.1
5/8" PEX	300'	0.63"	0.79"	5.0"	16.2
5/8" PEX	1200'	0.63"	0.79"	5.0"	16.2
3/4" PEX	100'	0.79"	0.98"	6.0"	25.3
3/4" PEX	300'	0.79"	0.98"	6.0"	25.3
3/4" PEX	500'	0.79"	0.98"	6.0"	25.3
1" PEX	100'	0.98"	1.26"	8.0"	39.5
1" PEX	300'	0.98"	1.26"	8.0"	39.5
1" PEX	500'	0.98"	1.26"	8.0"	39.5

MAX TEMPERATURE	MAX PRESSURE
200°F	100 psi
180°F	125 psi
140°F	160 psi
73°F	200 psi

Standards and Listings:

Manufacturer to ASTM F-1281



Manufactured in accordance with American Society for Testing and Materials (ASTM) F-1281.



Tested and listed by the National Sanitation foundation (NSF-pw Standards 14 and 61 and NSF-rfh).



Carries the UPS certification mark, as approved by the International Association of Plumbing and Mechanical Officials (IAPMO).

Design and Installation:

PEX-AL-PEX (PAP) tubing shall be installed in accordance with Radiant Panel Association Installation guidelines. Radiant Panel Association, 1399 S. Garfield Ave. Loveland, CO 80537 1/800 660-7187 or 1/970 613-0100.

Marking and Certification:

PAP is marked with Allied PEX-AL-PEX (PAP), the production code and date, nominal size, design pressure/temperature ratings and ASTM specifications numbers. Tubing is third party tested to the requirements of the stated ASTM standards. Tubing includes incremental footage markings to assist with loop layout.

Recommended Uses:

PAP tubing is recommended for hydronic radiant panel heating systems utilizing water or an *antifreeze solution as the heat transfer media.

Handling and Installation:

Install of PEX-AL-PEX (PAP) in accordance with guidelines published by the **Radiant Panel Association, applicable code requirements and accepted industry practices. Hydro-static testing is recommended and is to be conducted in accordance with local code requirements. For information on the suitability for other applications, contact your Vanguard representative.

Fitting Connections:

Allied offers proven connection systems that are made to the ASTM F-1281 standard for pipe and fittings.

- Press Fittings: Brass body with double o-ring seals, stainless steel sleeves and a polymer insulator against the pipe end; Press, threaded or sweat ends available.
- Compression Fittings: Brass body fitting seals without special tools with double o-ring seals and a polymer insulator against the pipe end; Press, threaded or sweat ends available.
- SS-T20 Compression and Press Fittings: Stainless steel or T20 copper manifolds.

Fittings should not be installed when the ambient temperature is below 30°F (0°C).

Allied reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Allied products previously or subsequently sold.

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