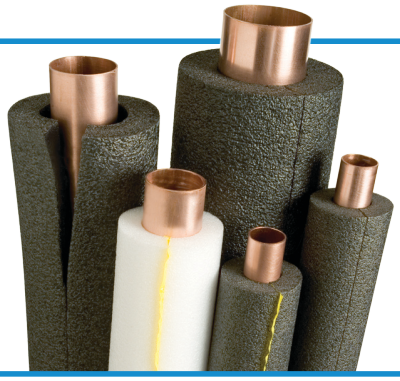
Polyethylene Pipe Insulation



General

Tundra Plus & Tundra Seal Plus Polyelfin/Polyethylene Pipe Insulation is low density, polymer-based and easy-to-apply tubing products that are available in a wide variety of sizes in semi-slit and self-sealing designs. The self-sealing design has a yellow release liner that is both easy to see and peel. These chemically inert pipe insulations are specially formulated to retard heat gain and their closed-cell structures allow them to function as efficient insulators.

Key Features

- Low density
- Easy-to-apply
- Available in Self-Seal or Semi-Slit
- Best for indoor applications such as plumbing, hot water heater lines or in-floor radiant heat
- Best applications where temperature does not exceed 82°C or below -68°C
- Reduces Heat Loss
- Resists Freezing
- Reduces Condensation
- Reduces Plumbing Noise

Uses

Tundra Plus & Tundra Seal Plus Polyethylene Pipe Insulation are widely used to reduce unwanted heat loss or heat gain, control condensation, decrease plumbing noise and maximize energy savings. They can be used on hot and cold water lines, refrigeration lines, air conditioning lines; line set tubing, condenser coils, and connection and distribution lines.

These tubing products boast a broad range of other insulating applications and can be used as protective covers where necessary. Tundra Plus & Tundra Seal Plus Polyethylene Pipe Insulation meets all specifications for both home and industrial applications where the operating temperature is between -90°F and 180°F (-68°C and 82°C).

Tundra Plus & Tundra Seal Plus Polyethylene Pipe Insulation have a flame spread rating of 25 or less and a smoke developed rating of 50 or less, as tested by ASTM E 84 “Surface Burning Characteristics of Building Materials.”

Note: Numerical flammability ratings alone may not define the performance under actual fire conditions. They are provided only for use in the selection of products to ensure the specified limits are met.

Tundra Seal Plus is available in both black and white, and is available in a variety of wall thicknesses—from 3/8” to 1”, and ID’s of 3/8” to 4½”

Can be used for underground applications.

Specifications

Physical Properties	TUNDRA	Test Method
Material	Closed Cell Polyolefin	—
Colour	Charcoal or White	—
Upper Use Limit	180° F (82° C) constant	—
Lower Use Limit	-90° F (-68° C)	—
Density	1.5 lbs/ft³	ASTM D 1622
Ozone Resistance	Good	ASTM D 1171
Thermal Conductivity (K)	at 75° F (24° C) Mean Temp	ASTM C 177 or C 518
BTU-in/hr-ft² -°F (W/m-K)	0.230 (0.033)	—
Water Absorption	0.02% by Volume	ASTM E 96
Flame Speed	Less than 25	ASTM E 84; CAN/ ULC-S102.2-M88
Smoke Classification	Less than 50	ASTM E 84; CAN/ ULC-S102.2-M88

Tundra Plus & Tundra Seal Plus Pipe Insulation

Sizes, Wall Thicknesses, Quantities and R Values

				3/8" Wall			1/2" Wall			3/4" Wall			1" Wall		
Nominal ID	Metric (mm)	Nom Copper	Iron Pipe	Pcs/Ctn	Ft/Ctn	R Value	Pcs/Ctn	Ft/Ctn	R Value	Pcs/Ctn	Ft/Ctn	R Value	Pcs/Ctn	Ft/Ctn	R Value
3/8	9.5	1/4	—	100	600	2.687	74	444	3.844	—	—	—	—	—	—
1/2	12.5	3/8	1/4	80	480	2.490	60	360	3.582	34	204	6.027	—	—	—
5/8	15.9	1/2	3/8	68	408	2.357	51	306	3.375	30	180	5.653	18	108	8.189
3/4	19.1	5/8	—	60	360	2.680	45	270	3.223	28	168	5.374	17	102	7.767
7/8	22.2	3/4	1/2	50	300	2.187	40	240	3.107	26	156	5.155	15	90	7.435
1 1/8	27.6	1	3/4	40	240	2.082	30	180	4.835	17	102	4.835	15	90	6.941
1 3/8	34.9	1 1/4	1	32	192	2.011	25	150	2.822	15	90	4.610	12	72	6.588
1 5/8	41.3	1 1/2	1 1/4	22	132	1.959	20	120	2.737	14	84	4.42	10	60	6.323
1 7/8	47.9	—	1 1/2	18	108	1.920	15	90	2.672	11	66	4.313	9	54	6.115
2 1/8	54.0	2	—	15	90	1.889	14	84	2.620	9	54	4.209	8	48	5.948
2 3/8	59.9	—	2	15	90	1.864	11	66	2.578	9	54	4.124	7	42	5.810
2 5/8	66.3	2 1/2	—	12	72	1.844	10	60	2.544	8	48	4.053	6	36	5.695
2 7/8	72.6	—	2 1/2	10	60	1.827	9	54	2.514	7	42	3.993	6	36	5.596
3 1/8	79.4	3	—	9	54	1.812	8	48	2.490	6	36	3.942	12	72	5.512
3 1/2	83.9	—	3	—	—	—	7	42	2.459	12	72	3.877	12	72	5.404
3 5/8	32.1	3 1/2	—	—	—	—	7	42	2.449	—	—	—	12	72	5.373
4	101.6	—	3 1/2	—	—	—	6	36	2.425	—	—	—	—	—	—
4 1/8	104.8	4	—	—	—	—	5	30	2.418	—	—	—	9	54	5.264
4 1/2	114.3	—	4	—	—	—	5	30	2.399	—	—	—	8	48	5.196

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