

SOFTLON[®] Tube

REFRIGERATION PIPE INSULATION



Softlon[®] Tube is a flexible copper pipe insulation for AC and refrigeration systems.

- Made from closed cell physically crosslinked polyolefin foam
- Excellent insulation properties
- Available in fire retardant grades (UL94 HF-1)
- Choice of surface coverings
- Wide temperature range (Up to 120C)

SEKISUI

FOAM
INTERNATIONAL
Global Foam Solutions

PHYSICALLY
CROSSLINKED
SEKISUI TECHNOLOGY

SOFTLON[®] Tube

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Product Features

- Lowest thermal conductivity (0.032 W/mK) ensures excellent thermal resistance at small thicknesses
- Closed cell structure with almost zero water absorption
- High vapour permeability resistance factor
- Wide temperature range (-80C to 100C for S type and up to 120C for NF grade)
- Very low shrinkage
- High flexibility and conformability allows easy installation
- Surface coverings provide protection against damage



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Product Range

FOAM			
Type	Properties	Application	
S	Standard type	General insulation	
FR-ND	Fire Retardant Type foam (UL 94- HF1)	Applications requiring higher fire resistance is required	
NF	Heat Resistant type	General insulation where a higher temperature resistance is required (up to 120C)	
COVERING			
Type	Properties		
Embossed clear LLDPE film	<ul style="list-style-type: none"> • UV treated clear film. • Offers protection of the foam during installation and wall penetrations. • Improved water vapour permeability resistance 		
Embossed white LLDPE film	<ul style="list-style-type: none"> • Embossed white UV treated film offers better aesthetics and flexibility. • UV resistant and durable. • Superior protection to the foam during installation. • Improved water vapour permeability resistance 		
PVC Film (Hi Temp)	<ul style="list-style-type: none"> • The heavy PVC film offers outstanding UV and physical protection. • Maximum water vapour transmission resistance • Superior heat and chemical resistance. 		



Technical Specifications

Property	Typical Values		Test Method
	40X Series (S type)	30X Series (S Type)	
Density	25 kg/m ³ (nominal)	33 kg/m ³ (nominal)	Internal
Tensile Strength	3.6 kg/cm ² MD 2.2 kg/cm ² CD	4.7 kg/cm ² MD 2.8 kg/cm ² CD	JIS K6767
Elongation	237% MD 198% CD	277% MD 206% CD	JIS K6767
Tear Strength	2.0 kg/cm MD 1.0 kg/cm CD	2.9 kg/cm MD 1.7 kg/cm CD	JIS K6767
Compressive Hardness	0.27 kg/cm ²	0.32 kg/cm ²	JIS K6767
Compression Strength	0.30 kg/cm ² @ 25% 0.85 kg/cm ² @ 50% 2.51 kg/cm ² @ 75%	0.35 kg/cm ² @ 25% 1.00 kg/cm ² @ 50% 3.25 kg/cm ² @ 75%	Internal
Compression Set	7.5% @ 25%	7.0% @ 25%	JIS K6767
Dimensional Change Heat	-1.50% MD -0.90% CD	-1.45% MD -0.75% CD	70°C, 22hr
Operating Temperature Range	-80°C - +100°C	-80°C - +100°C	
Thermal Conductivity	0.032 W/m/°K	0.034 W/m/°K	ASTM C518
Water Absorption	0.10 mg/cm ²	0.07 mg/cm ²	JIS K6767
Water Vapour Permeability	8.3 x 10 ⁻¹⁴ kg/m/s/Pa	7.3 x 10 ⁻¹⁴ kg/m/s/Pa	JIS Z0208

Size Range

COPPER PIPE			
Inches	mm	Thickness Availability (mm)	ID Tolerance
3/8	9.5	3 mm ~ 10 mm	-1.0 ~ +1.5
1/2	12.7	3 mm ~ 10 mm	-1.0 ~ +2.0
5/8	15.9	3 mm ~ 10 mm	-1.0 ~ +2.0
3/4	19.1	3 mm ~ 10 mm	-1.0 ~ +2.0
7/8	22.2	3 mm ~ 10 mm	-1.0 ~ +2.5
1	25.4	3 mm ~ 10 mm	-1.0 ~ +2.5
1 1/8	28.6	3 mm ~ 10 mm	-1.0 ~ +2.5
1 3/8	34.9	3 mm ~ 10 mm	-1.0 ~ +2.5
1 5/8	41.3	3 mm ~ 10 mm	-1.0 ~ +2.5
2 1/8	54.0	3 mm ~ 10 mm	-1.0 ~ +2.5
2 5/8	66.7	3 mm ~ 10 mm	-1.0 ~ +2.5
3 1/8	79.4	3 mm ~ 10 mm	-1.0 ~ +2.5
3 5/8	92.1	3 mm ~ 10 mm	-1.0 ~ +2.5
4 1/8	104.8	3 mm ~ 10 mm	-1.0 ~ +2.5
4 1/2	114.0	3 mm ~ 10 mm	-1.0 ~ +2.5
5 1/5	139.7	3 mm ~ 10 mm	-1.0 ~ +2.5
6	162.4	3 mm ~ 10 mm	-1.0 ~ +2.5

Other Sizes available on request

Tolerances

Wall Thickness (mm)	mm
<5	-0.5 ~ +1.0
5 - 10	-0.5 ~ +1.5
>10	-0.5 ~ +2.0
Length (mm)	mm
100 - 500	-0 ~ +5
500 - 1000	-0 ~ +20
1000 - 2000	-0 ~ +30
2000 - 3000	-0 ~ +40
> 3000	-0 ~ +2%



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