

Physically Cross-linked Polyolefin Foam

SOFTLON



SOFTLON TUBE

Superior Thermal Insulation for Copper Tubes, Hot Water Pipes and Drain Pipes

Superior Preformed Tube Insulation

Softlon FR Tube is made from closed cell physically crosslinked polyolefin foam with an embossed film. Softlon FR Tube's low thermal conductivity combined with low water absorption and vapour permeability make it ideal for insulating air conditioning and refrigeration systems as well as drain pipes and hot water pipes.

Outstanding Insulation Properties

The layers of air provided by Softlon FR Tubes closed cell structure result in low thermal conductivity as well as excellent moisture resistance.

- Very Low thermal conductivity 0.032 W/mK (at 23°C)
- High vapour permeability resistance factor of >7000
- Almost zero water absorption



Flexibility & Durability

The polyolefin foam used in Softlon FR Tube is very flexible and durable meaning that it is easy to install and will perform well in a variety of applications and environments.

- High flexibility and conformability
- Wide operating temperature range of -80°C to +100°C
- UV treated clear film
- Very low shrinkage

Environment, Health & Safety

Softlon FR Tube is manufactured to comply with Green building initiatives and is free of hazardous substances such as CFCs, heavy metals and PVC.

- Green Star Compliant (Low VOC)
- Zero PVC, Zero Formaldehyde
- Compliance to REACH Directive
- No CFCs or HCFCs
- Compliance to RoHS Directive
- Fibre Free
- Zero Ozone Depletion Potential
- Low GWP



Technical Specification

Material: Softlon® FR Tube is a dark grey flexible closed cell, electron beam crosslinked, fire retardant polyolefin foam, with an embossed outer film.

Property	40X FR	Test Method
Density	25 kg/m ³ (nominal)	Internal
Thermal Conductivity (23°C)	0.032 W/m/°K	ASTM C518
Dimensional Change Heat	-1.4% (longitudinal) -0.9% (crosswise)	70°C, 22H
Flammability Properties	Pass	UL94 (HF-1)
Operating Temperature Range	-80°C - +100°C	Internal
Water Absorption	<0.1% v/v	JIS K6767
Permeability Resistance Factor	>7000	ASTM E96

Size Availability

Property	Standard (*)
Size ID	ID 6.35 to ID 110
Thickness (mm)	9-12-15-20-25-30
Length per tube (m)	2-300

(*) Other size and ID will be supplied on request.

Packaging

- Paper cartons
- Carton Dimensions: W 45cm x L 210cm x H 40cm



Softlon Emboss Sheet

Softlon Emboss Sheet is made from closed - cell physically crosslinked polyolefin foam with an embossed polyethene film. It is an ideal material for fabricating thermal insulation tubes

- Superior thermal insulation performance.
- Low water absorption.
- Low vapour permeability.
- High chemical resistance to acid, alkalis and organic solvents.



Availability	Description
Thickness range	3mm – 10mm
Foam Colour	(80) White and (90) Gray
Film Colour	Clear, White and Ivory
Surface Treatment	Embossed with PE film

Technical Specification

Property	Units	4000 S	3000 S	4000 FR-ND	3000 FR-ND	3000 NF
Product Type	-	Standard	Standard	Flame Retardant	Flame Retardant	Heat Resistant
Nominal Density	Kg/m ³	25	33	25	33	33
Tensile Strength (MD)	Kgf/cm ²	1.50 min.	2.00 min.	1.50 min.	2.00 min.	3.50 min.
Tensile Strength (TD)	Kgf/cm ²	1.00 min.	1.50 min.	1.00 min.	1.50 min.	2.00 min.
Elongation (MD)	%	80 min.	100 min.	80 min.	100 min.	100 min.
Elongation (TD)	%	60 min.	70 min.	60 min.	70 min.	100 min.
Tear Strength (MD)	Kgf/cm	1.20 min.	1.50 min.	1.20 min.	1.50 min.	1.50 min.
Tear Strength (TD)	Kgf/cm	0.70 min.	1.00 min.	0.70 min.	1.00 min.	1.00 min.
Hardness in Compression	Kgf/cm ²	0.22 min.	0.22 min.	0.22 min.	0.22 min.	0.22 min.
Compression Set	%	10.00 max.	10.00 max.	10.00 max.	10.00 max.	10.00 max.
Water Absorption	mg/cm ²	1.00 max.	1.00 max.	1.00 max.	1.00 max.	1.00 max.
Vapour Permea	g/m ² .Pa.s	-	-	2.5117 x 10 ⁻⁹	-	-
Thermal Conductivity (23°C)	W/mk	0.0321	0.0345	0.0321	0.0345	0.0345
Flammability	UL94 HF-1	-	-	Pass	Pass	-
Operating Temperature	°C	-80~100	-80~100	-80~100	-80~100	-80~120

SEKISUI

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