

July 2016

# K-FLEX



## INSUL-TUBE INSUL-SHEET



Innovation in insulation



# K-FLEX

[www.kflexusa.com](http://www.kflexusa.com)

## ► INSUL-TUBE / INSUL-SHEET

INSUL-TUBE  
INSUL-SHEET



### INFO ► INSUL-TUBE / INSUL-SHEET

INSUL-TUBE / INSUL-SHEET is a range of insulation products by L'ISOLANTE K-FLEX Group. L'ISOLANTE K-FLEX Group is an Italian based multinational company specialize in manufacturing thermal and acoustic insulation material. L'ISOLANTE K-FLEX is one of the worldwide market leader.

INSUL-TUBE / INSUL-SHEET is produce in a world class, state of the art manufacturing facility in Klang, Malaysia, which practices international Quality Management System to ensure a superior quality, internationally recognize end product.

INSUL-TUBE / INSUL-SHEET insulation is a "Closed Cell Elastomeric Rubber Foam Insulation", an insulation designed, taking into consideration of the stringent requirement of international accepted properties.

INSUL-TUBE / INSUL-SHEET insulation system is the perfect solution for various HVAC thermal and acoustic

Applications:

1. Chilled water piping system
2. Refrigeration pipework
3. Ducting system
4. Hot water piping system
5. Large pipe and tanks insulation

INSUL-TUBE / INSUL-SHEET has a low and consistent level of thermal conductivity value, over a long period of time.

INSUL-TUBE / INSUL-SHEET insulation has an excellent fire resistance characteristic, complying to a stringent fire standard of BS 476 Part 6&7 with Class "0" classification.

INSUL-TUBE / INSUL-SHEET is indeed a perfect solution for projects where fire safety is a priority concern.

INSUL-TUBE / INSUL-SHEET insulation is a flexible and robust insulation material which offers easy and fast installation process and nevertheless a long and durable lifespan.

INSUL-TUBE / INSUL-SHEET insulation comes with a complete closed cell structure which ensure an effective and consistent insulation properties over time. The closed cell structure creates an effective vapor barrier to prevent water vapor ingress in the insulation system.

The superior properties of INSUL-TUBE / INSUL-SHEET insulation is created through a long and tedious process of Research and Development program.

INSUL-TUBE / INSUL-SHEET insulation achieves an effective thermal conductivity value of 0.034W/m.K @ 20 degrees Celsius and a high water diffusion factor  $\mu > 10,000$ .

INSUL-TUBE / INSUL-SHEET insulation is tested according to a series of stringent standards. INSUL-TUBE / INSUL-SHEET is compliant to BS 476 Part 6&7 with Class "0" classification, ASTM E84 with effective result of 25/30 and UL 94 Class V-0.

INSUL-TUBE / INSUL-SHEET insulation is a flexible insulation system which will ease installation process and lower installation time and resulting a massive cost saving.

INSUL-TUBE / INSUL-SHEET is clean room approved and environmental friendly insulation system, with numerous 3rd party test laboratory certifications Low VOC, Formaldehyde Free, CFC/HCFC Free, Fiber Free/Dust Free, Ozone Depletion Potential of Zero, Greenguard and Greenmark (Green Building Index) Approved.

INSUL-TUBE / INSUL-SHEET insulation is also Factory Mutual Approved and tested for EMSL G21 Anti Microbial Resistant.

### TECHNICAL DATA ► INSUL-TUBE / INSUL-SHEET

<b>Material</b>	Elastomeric foam - Nitrile Butadine Rubber
<b>Cell structure</b>	Closed-cell
<b>Temperature Range</b>	-200°C ~ +116°
<b>Thermal Conductivity EN 12667 (DIN 52612)</b>	$\lambda=0.034$ W/(m.k) @ +20°C $\lambda =0.032$ W/(m.k) @ 0°C $\lambda =0.028$ W/(m.k) @ -50°C
<b>Water Vapour Diffusion Resistance Factor EN 12086 (DIN 52615)</b>	$\mu \geq 10000$
<b>Fire performance (surface spread of flame, BS476 Part 7 1997)</b>	Class 1
<b>Fire propagation (BS476 Part 6 1989)</b>	Class 0
<b>- Total Index of Performance (I)</b>	Less than 12
<b>- Sub Index (i)</b>	Less than 6
<b>Density</b>	50 ~ 80 kg/m <sup>3</sup>
<b>Fungal / Mold resistance</b>	ASTM G21 Anti Microbial Greenguard certified
<b>VOC Emissions Test Report</b>	Low VOC
<b>Ecological Data</b>	CFC-HCFC Free - Diphenyloxyde Free - Formaldehyde Free

For applications at a temperature lower than -50°C, please contact our sales team.

Outdoor applications should be painted with K-FLEX finish paint to the recommended thickness. Two or more coats may be required.

**K-FLEX** reserves the right to change data and technical requirements without notice.



**RANGE ► INSUL-TUBE (2 METERS)**

Copper Pipe		Iron Pipe		6 • 1/4"		9 • 3/8"		13 • 1/2"		19 • 3/4"		25 • 1"		32 • 1 • 1/4"		40 • 1 • 1/2"		50 • 2"	
OC Inches	ø OD mm	LPS Inches	ø OD mm	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box
1/4"	6					9x6	288	13x6	160	19x6	100								
3/8"	10	1/6"	10.2			9x10	240	13x10	152	19x10	80	25x10	60						
1/2"	12					9x13	180	13x13	128	19x13	72	25x13	50						
5/8"	15	1/4"	13.5	6x16	266	9x16	168	13x16	112	19x16	60	25x16	50						
3/4"	20			6x19	180	9x19	136	13x19	104	19x19	60	25x19	40	32x19	32				
7/8"	22	1/2"	21.3	6x22	180	9x22	128	13x22	98	19x22	60	25x22	38	32x22	24	40x22	18	50x22	12
1"	25			6x25	152	9x25	108	13x25	80	19x25	50	25x25	40	32x25	24	40x25	16	50x25	10
1.1/8"	28	3/4"	26.9	6x28	130	9x28	98	13x28	78	19x28	48	25x28	32	32x28	24	40x28	16	50x28	10
1.3/8"	35	1"	33.7	6x35	100	9x35	76	13x35	58	19x35	36	25x35	24	32x35	18	40x35	16	50x35	8
1.5/8"	42	1.1/4"	42.4	6x42	90	9x42	60	13x42	48	19x42	32	25x42	22	32x42	16	40x42	12	50x42	8
1.7/8"	48	1.1/2"	48.3			9x48	50	13x48	40	19x48	24	25x48	18	32x48	14	40x48	10	50x48	8
2.1/8"	54					9x54	46	13x54	34	19x54	24	25x54	18	32x54	14	40x54	10	50x54	8
2.3/8"	60	2"	60.3			9x60	46	13x60	32	19x60	22	25x60	18	32x60	10	40x60	8	50x60	8
3"	76	2.1/2"	76.1			9x76	40	13x76	26	19x76	18	25x76	10	32x76	8	40x76	8	50x76	6
3.1/2"	89	3"	88.9			9x89	36	13x89	24	19x89	14	25x89	8	32x89	8	40x89	8	50x89	6
4.1/2"	114	4"	114.3			9x114	22	13x114	18	19x114	12	25x114	6	32x114	6	40x114	6	50x114	6
		5"	139.8													40x140	4	50x140	4
		6"	165.2													40x168	4	50x168	4

INSUL-TUBE / INSUL-SHEET

**RANGE ► INSUL-SHEET (ROLLS)**

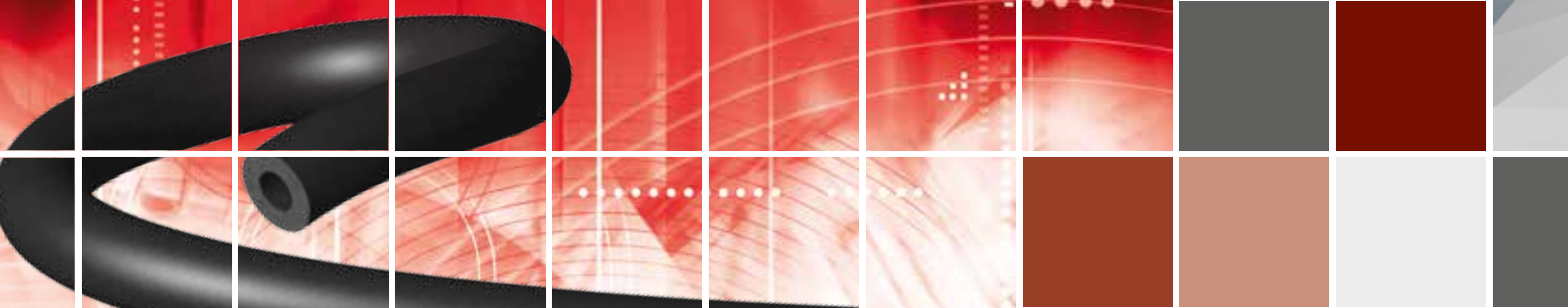
Type	Thickness		Sheet 1.14 metre wide	
	mm	inches	format	m <sup>2</sup> /box
PL/RO 06	6	1/4"	30 x 1.14	34.20
PL/RO 10	10	3/8"	20 x 1.14	22.80
PL/RO 13	13	1/2"	14 x 1.14	15.96
PL/RO 19	19	3/4"	10 x 1.14	11.40
PL/RO 25	25	1"	8 x 1.14	9.12
PL/RO 32	32	1.1/4"	6 x 1.14	6.84
PL/RO 40	40	1.1/2"	4 x 1.14	4.56
PL/RO 50	50	2"	4 x 1.14	4.56



Self adhesive sheets available in all sizes.

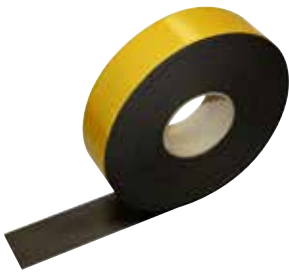


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## ACCESSORIES ▶ K-FLEX

SELF ADHESIVE FOAM TAPES



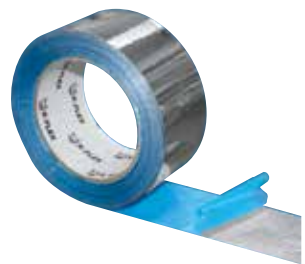
PIPE SUPPORT



K 996 GLUE



ALUMINIUM TAPE



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