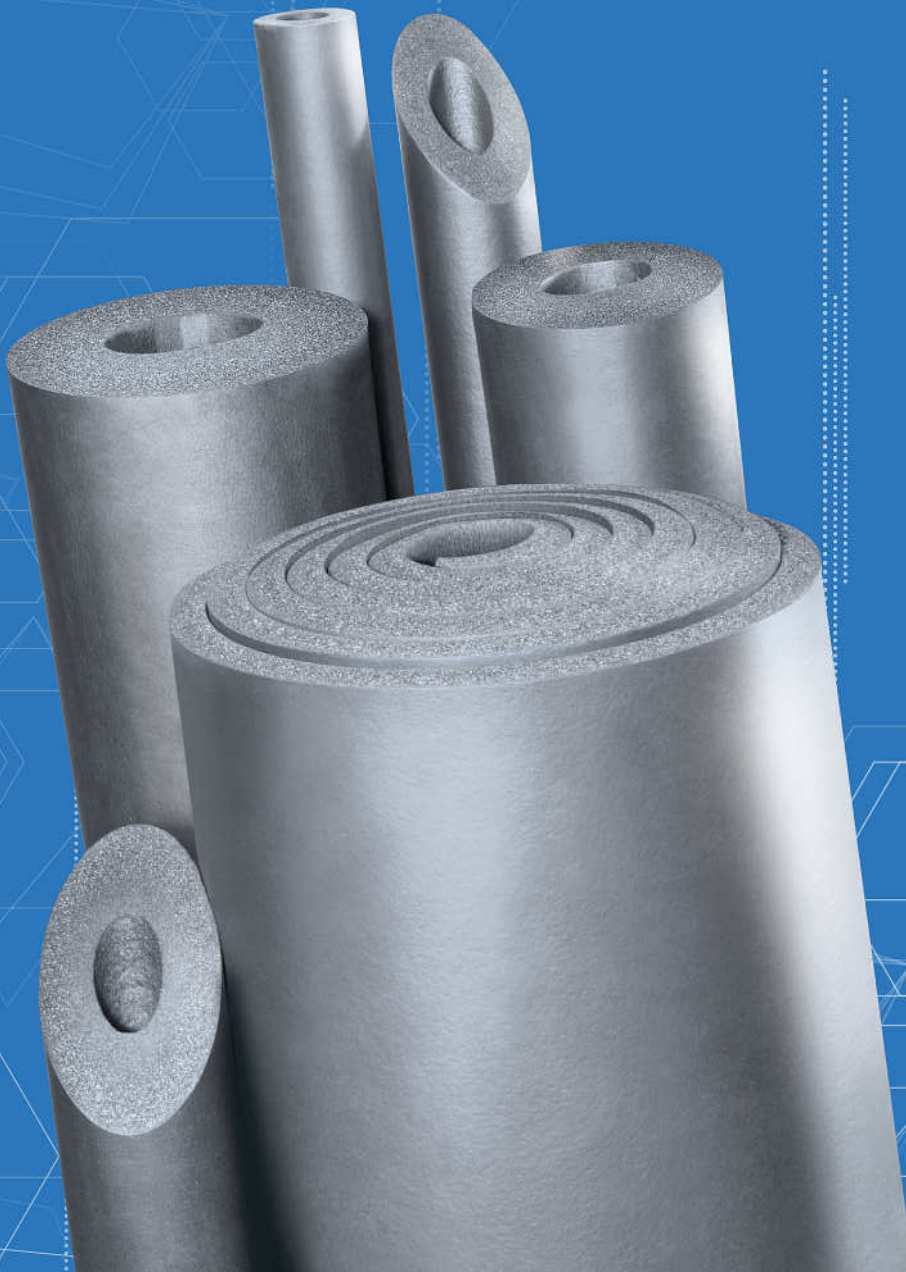




COMPLETE CLOSED CELL ELASTOMERIC THERMAL INSULATION

**The Perfect Insulation for Refrigeration,
Air Conditioning, Heating and Plumbing
Applications.**

- ◆ Excellent weather/UV & ozone resistance
- ◆ Very low thermal conductivity
- ◆ Excellent and safety fire performance
- ◆ Better water vapor resistance
- ◆ Service temperature up to 125°C



EPDM
elastomeric
thermal insulation

IMPERIAL



Made from light weight elastomeric material, EPDM (ETHYLENE PROPYLENE RUBBER), MAXFLEX® is an ideal thermal insulation to prevent condensation problems on chilled water pipes or refrigerant lines, and also to against frost formation. MAXFLEX® is available as tube insulation, precut sheet, standard flat sheet and sheet roll which are CFC free, HFC free, HCFC free and O.D.P. zero.

Being dust and fibre free, MAXFLEX® is superior for air-ducting system. It has been favored over the fibrous insulation materials because of the possible health hazards and dangers caused by the loose particles of fibrous materials into air vents.

MAXFLEX® can be used for both as interior or exterior insulating materials of all air-ducting systems. Safely handled without causing skin irritation and its flexibility makes installation work easy and neat. MAXFLEX® is merchandized in ready-to-use Pressure Sensitive Adhesive and Aluminum Foil surface upon request.

Better temperature control & Energy conservation

Molecular structure of MAXFLEX® is characterized by a large number of fine cross-linked closed cells which provides effective reduction of heat loss from indoor and outdoor air ducting systems. It also reduces waste of energy by higher heat gain into the cooling systems.

Prevent Condensation Problems

Excellent moisture and vapor resistance due to its dense surface skin and the closed cell structure.

Durable

Outstanding ozone / UV and weather resistance. Superior resistance against moisture, fungus growth, vermin and rodent attack.

Excellent sound absorption

Acting as a vibration damper and serves as outer shields, MAXFLEX® greatly reduces noise from mechanical equipment, as well as noise from cross-talk and air movement.

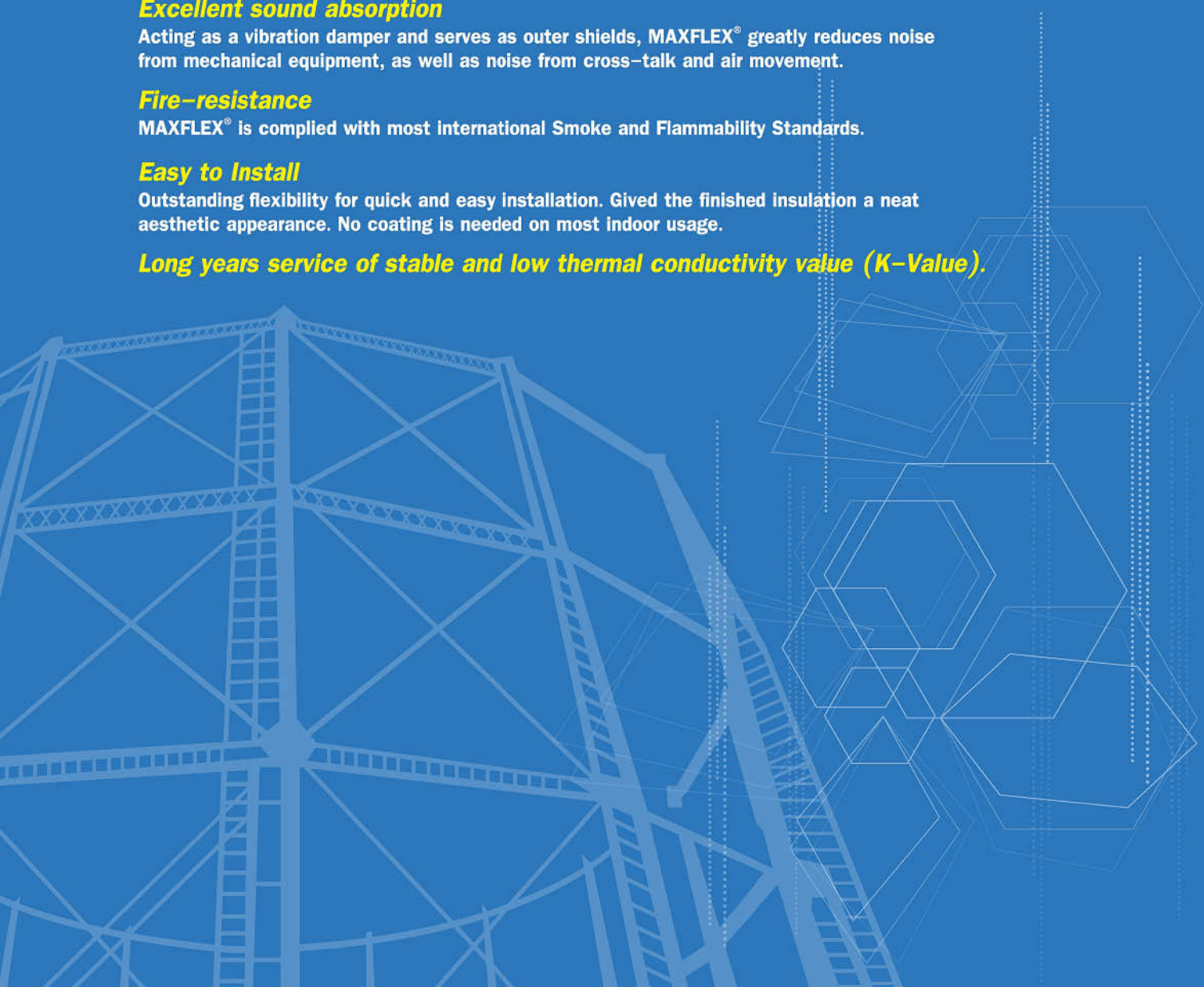
Fire-resistance

MAXFLEX® is complied with most international Smoke and Flammability Standards.

Easy to Install

Outstanding flexibility for quick and easy installation. Gived the finished insulation a neat aesthetic appearance. No coating is needed on most indoor usage.

Long years service of stable and low thermal conductivity value (K-Value).



MAXFLEX® Insulation Tube : 6 Feet Length / Piece

ID of MAXFLEX® Tube		Pipe Size			Code number (Quantity : pcs. / carton)				
Inch	mm.	Copper Tube (in.)	Iron Pipe (in.)	PVC Pipe (in.)	1 / 4" wall (6 mm.)	3 / 8" wall (9 mm.)	1 / 2" wall (13 mm.)	3 / 4" wall (19 mm.)	
1/4"	6	1/4"	-	-	P 14 x 14 (180)	P 38 x 14 (132)	P 12 x 14 (80)	P 34 x 14 (32)	
3/8"	9	3/8"	-	-	P 14 x 38 (140)	P 38 x 38 (110)	P 12 x 38 (70)	P 34 x 38 (32)	
1/2"	13	1/2"	1/4"	1/4"	P 14 x 12 (110)	P 38 x 12 (84)	P 12 x 12 (60)	P 34 x 12 (32)	
5/8"	16	5/8"	3/8"	3/8"	P 14 x 58 (80)	P 38 x 58 (70)	P 12 x 58 (50)	P 34 x 58 (28)	
3/4"	19	3/4"	-	-	P 14 x 34 (70)	P 38 x 34 (60)	P 12 x 34 (40)	P 34 x 34 (24)	
7/8"	22	7/8"	1/2"	1/2"	P 14 x 78 (70)	P 38 x 78 (54)	P 12 x 78 (32)	P 34 x 78 (20)	
1"	25	-	-	-	P 14 x 10 (60)	P 38 x 10 (44)	P 12 x 10 (30)	P 34 x 10 (18)	
1 - 1/8"	28	1 - 1/8"	3/4"	3/4"	P 14 x 118 (50)	P 38 x 118 (36)	P 12 x 118 (28)	P 34 x 118 (18)	
1 - 1/4"	32	-	-	-	P 14 x 114 (40)	P 38 x 114 (34)	P 12 x 114 (24)	P 34 x 114 (18)	
1 - 3/8"	35	1 - 3/8"	1"	1"	P 14 x 138 (40)	P 38 x 138 (32)	P 12 x 138 (20)	P 34 x 138 (16)	
1 - 1/2"	38	-	-	-	P 14 x 112 (32)	P 38 x 112 (30)	P 12 x 112 (18)	P 34 x 112 (12)	
1 - 5/8"	42	1 - 5/8"	1 - 1/4"	1 - 1/4"	P 14 x 158 (30)	P 38 x 158 (28)	P 12 x 158 (18)	P 34 x 158 (12)	
1 - 3/4"	45	-	-	-	-	P 38 x 134 (24)	P 12 x 134 (18)	P 34 x 134 (10)	
1 - 7/8"	48	-	1 - 1/2"	1 - 1/2"	-	P 38 x 178 (20)	P 12 x 178 (16)	P 34 x 178 (10)	
2"	51	-	-	-	-	P 38 x 200 (18)	P 12 x 200 (14)	P 34 x 200 (8)	
2 - 1/8"	54	2 - 1/8"	-	-	-	P 38 x 218 (18)	P 12 x 218 (14)	P 34 x 218 (8)	
2 - 1/4"	57	-	-	-	-	P 38 x 214 (18)	P 12 x 214 (14)	P 34 x 214 (8)	
2 - 3/8"	60	-	2"	2"	-	P 38 x 238 (16)	P 12 x 238 (12)	P 34 x 238 (8)	
2 - 1/2"	64	-	-	-	-	-	P 12 x 212 (10)	P 34 x 212 (8)	
2 - 5/8"	67	2 - 5/8"	-	-	-	-	P 12 x 258 (10)	P 34 x 258 (8)	
2 - 7/8"	73	-	2 - 1/2"	2 - 1/2"	-	-	P 12 x 278 (10)	P 34 x 278 (6)	
3"	76	3"	-	-	-	-	P 12 x 300 (8)	P 34 x 300 (6)	
3 - 1/8"	80	3 - 1/8"	-	-	-	-	P 12 x 318 (8)	P 34 x 318 (6)	
3 - 1/4"	83	-	-	-	-	-	P 12 x 314 (8)	P 34 x 314 (6)	
3 - 1/2"	90	-	3"	3"	-	-	P 12 x 312 (8)	P 34 x 312 (6)	
3 - 5/8"	92	3 - 5/8"	-	-	-	-	P 12 x 358 (8)	P 34 x 358 (6)	
3 - 7/8"	98	-	-	-	-	-	P 12 x 378 (8)	P 34 x 378 (4)	
4"	102	-	3 - 1/2"	3 - 1/2"	-	-	P 12 x 400 (8)	P 34 x 400 (4)	
4 - 1/8"	105	4 - 1/8"	-	-	-	-	P 12 x 418 (6)	P 34 x 418 (4)	
4 - 1/2"	115	-	4"	4"	-	-	P 12 x 412 (6)	P 34 x 412 (4)	
5 - 1/8"	130	5 - 1/8"	-	-	-	-	P 12 x 518 (4)	P 34 x 518 (4)	
5 - 1/2"	140	-	5"	5"	-	-	P 12 x 512 (4)	P 34 x 512 (4)	
6 - 1/2"	165	-	6"	6"	-	-	-	P 34 x 612 (2)	

MAXFLEX® Standard Sheet Insulation and Continuous Sheet Roll

MAXFLEX® Sheet Standard Flat Sheet Continuous Sheet Roll	Product Codes (Sizes, Length, Quantity per carton)								
	1/8" thick* (3 mm.)	1/4" thick* (6 mm.)	3/8" thick* (9 mm.)	1/2" thick (13 mm.)	5/8" thick (16 mm.)	3/4" thick (19 mm.)	1" thick (25 mm.)	1-1/4" thick (32 mm.)	1-1/2" thick (38 mm.)
Standard Flat Sheet Size 3ft. x 4ft.	PSF 18 (48 sht / ctn)	PSF 14 (24 sht / ctn)	PSF 38 (16 sht / ctn)	PSF 12 (12 sht / ctn)	PSF 58 (10 sht / ctn)	PSF 34 (8 sht / ctn)	PSF 10 (6 sht / ctn)	PSF 114 (5 sht / ctn)	PSF 112 (4 sht / ctn)
Sheet Roll Width 4ft. Continuous Length	PSR 18 (L= 150 ft.) (600 ft²/ctn)	PSR 14 (L= 72 ft.) (288 ft²/ctn)	PSR 38 (L= 50 ft.) (200 ft²/ctn)	PSR 12 (L=36 ft.) (144 ft²/ctn)	PSR 58 (L= 32 ft.) (128 ft²/ctn)	PSR 34 (L= 23 ft.) (92 ft²/ctn)	PSR 10 (L= 18 ft.) (72 ft²/ctn)	PSR 114 (L= 13 ft.) (52 ft²/ctn)	PSR 112 (L= 12 ft.) (48 ft²/ctn)

▲ Note : * Insulation 1/8", 1/4" and 3/8" thick shall

MAXFLEX® Pre-Cut Sheet Insulation (4 Feet Length / Sheet)

Chilled Water Pipe Iron Pipe Size Diameter IPS	Code number (Quantity : Sheet /Carton)					
	Sheet Size	1/2" wall (13 mm.)	3/4" wall (20 mm.)	1" wall (25 mm.)	1-1/4" wall (32 mm.)	1-1/2" wall (38 mm.)
4 - 1/2" (4" IPS)	17" x 48"	PCS 12 x 412 (24)	PCS 34 x 412 (16)	PCS 10 x 412 (12)	PCS 114 x 412 (10)	PCS 112 x 412 (8)
5 - 1/2" (5" IPS)	21" x 48"	PCS 12 x 512 (12)	PCS 34 x 512 (8)	PCS 10 x 512 (6)	PCS 114 x 512 (5)	PCS 112 x 512 (4)
6 - 1/2" (6" IPS)	24" x 48"	PCS 12 x 612 (12)	PCS 34 x 612 (8)	PCS 10 x 612 (6)	PCS 114 x 612 (5)	PCS 112 x 612 (4)
8 - 1/2" (8" IPS)	30" x 48"	PCS 12 x 812 (12)	PCS 34 x 812 (8)	PCS 10 x 812 (6)	PCS 114 x 812 (5)	PCS 112 x 812 (4)
10 - 1/2" (10" IPS)	36" x 48"	PCS 12 x 1012 (12)	PCS 34 x 1012 (8)	PCS 10 x 1012 (6)	PCS 114 x 1012 (5)	PCS 112 x 1012 (4)

▲ Note : The above sheet size is for 1" wall thickness. For other thickness pre-cut sheet size

1" wall (25 mm.)	1-1/4" wall (32 mm.)	1-1/2" wall* (38 mm.)	2" wall* (50 mm.)
P 10 x 14 (24)	- -	- -	- -
P 10 x 38 (24)	- -	- -	- -
P 10 x 12 (20)	- -	- -	- -
P 10 x 58 (18)	P 114 x 58 (14)	P 112 x 58 (8)	- -
P 10 x 34 (18)	P 114 x 34 (12)	P 112 x 34 (8)	P 20 x 34 (4)
P 10 x 78 (16)	P 114 x 78 (12)	P 112 x 78 (8)	P 20 x 78 (4)
P 10 x 10 (12)	P 114 x 10 (10)	P 112 x 10 (8)	P 20 x 10 (4)
P 10 x 118 (12)	P 114 x 118 (8)	P 112 x 118 (8)	P 20 x 118 (4)
P 10 x 114 (12)	P 114 x 114 (8)	P 112 x 114 (8)	P 20 x 114 (4)
P 10 x 138 (10)	P 114 x 138 (8)	P 112 x 138 (6)	P 20 x 138 (4)
P 10 x 112 (10)	P 114 x 112 (8)	P 112 x 112 (6)	P 20 x 112 (4)
P 10 x 158 (8)	P 114 x 158 (8)	P 112 x 158 (6)	P 20 x 158 (4)
P 10 x 134 (8)	P 114 x 134 (8)	P 112 x 134 (6)	P 20 x 134 (4)
P 10 x 178 (8)	P 114 x 178 (6)	P 112 x 178 (6)	P 20 x 178 (3)
P 10 x 200 (8)	P 114 x 200 (6)	P 112 x 200 (4)	P 20 x 200 (3)
P 10 x 218 (8)	P 114 x 218 (6)	P 112 x 218 (4)	P 20 x 218 (3)
P 10 x 214 (8)	P 114 x 214 (6)	P 112 x 214 (4)	P 20 x 214 (3)
P 10 x 238 (6)	P 114 x 238 (4)	P 112 x 238 (4)	P 20 x 238 (3)
P 10 x 212 (6)	P 114 x 212 (4)	P 112 x 212 (4)	P 20 x 212 (3)
P 10 x 258 (6)	P 114 x 258 (4)	P 112 x 258 (4)	P 20 x 258 (3)
P 10 x 278 (6)	P 114 x 278 (4)	P 112 x 278 (3)	P 20 x 278 (2)
P 10 x 300 (6)	P 114 x 300 (4)	P 112 x 300 (3)	P 20 x 300 (2)
P 10 x 318 (6)	P 114 x 318 (4)	P 112 x 318 (3)	P 20 x 318 (2)
P 10 x 314 (6)	P 114 x 314 (4)	P 112 x 314 (3)	P 20 x 314 (2)
P 10 x 312 (4)	P 114 x 312 (4)	P 112 x 312 (3)	P 20 x 312 (2)
P 10 x 358 (4)	P 114 x 358 (4)	P 112 x 358 (3)	P 20 x 358 (2)
P 10 x 378 (4)	P 114 x 378 (2)	P 112 x 378 (3)	P 20 x 378 (2)
P 10 x 400 (4)	P 114 x 400 (2)	P 112 x 400 (2)	P 20 x 400 (2)
P 10 x 418 (4)	P 114 x 418 (2)	P 112 x 418 (2)	P 20 x 418 (2)
P 10 x 412 (4)	P 114 x 412 (2)	P 112 x 412 (2)	P 20 x 412 (2)
P 10 x 518 (2)	P 114 x 518 (2)	P 112 x 518 (2)	P 20 x 518 (2)
P 10 x 512 (2)	P 114 x 512 (2)	P 112 x 512 (2)	P 20 x 512 (2)
P 10 x 612 (2)	P 114 x 612 (2)	P 112 x 612 (2)	P 20 x 612 (1)

▲ Note : * 1-1/2" and 2" thick tube may be slitted lengthwise.

1/2" thick (8 mm.)	2" thick (50 mm.)
SF 112 (3 sht / ctn)	PSF 20 (3 sht / ctn)
SR 112 (= 10 ft.) (32 ft ² /ctn)	PSR 20 (L= 8 ft.) (32 ft ² /ctn)

I be supplied with one side skin.

2" wall (50 mm.)
PCS 20 x 412 (6)
PCS 20 x 512 (3)
PCS 20 x 612 (3)
PCS 20 x 812 (3)
PCS 20 x 1012 (3)

will vary to cover circumference.

DIMENSION OF PACKAGING

	W. (cm.)	L. (cm.)	H. (cm.)
TUBE 6 ft.	45	192	23
STANDARD FLAT SHEET 3 x 4 ft.	102	130	19
SHEET ROLL	46	130	46
PRE-CUT SHEET	W. (cm.)	L. (cm.)	H. (cm.)
4" IPS - 8" IPS	86	130	19
10" IPS	102	130	19
12" IPS	130	130	19
> 12" IPS	Rolled in Plastic Wrap		



Insulation Tubes 6 ft. length / piece, wall 1/4" to 2" thick, ID 1/4" to 6-1/2"



Standard Flat Insulation Sheet, size 3ft. x 4ft., 1/8" to 2" thick.



Continuous Sheet Roll, sheet width 4ft., 1/8" to 2" thick.



MAXGLUE, adhesive for MAXFLEX® 700 gm./can and 3,000 gm./gal. and 15 kg./pail.

MAXFLEX® SPECIFICATIONS

PHYSICAL PROPERTIES		* MAXFLEX [®]					TEST METHOD	INSTITUTE
Material		EPDM blend with additive					-	-
Cell Structure		Complete closed cell					-	-
Density lbs / ft ³ (g / cm ³)		3 ~ 5 (0.048 ~ 0.080)					ASTM D 1667	PSB corp., Singapore
Thermal Conductivity BTU.in / ft ² hr. °F (W / mK)	Mean Temp.	-4 °F (-20 °C)	32 °F (0 °C)	75 °F (24 °C)	90 °F (32 °C)	104 °F (40 °C)	ASTM C177 JIS A1412 DIN 52613	FIW Munchen, German
	K-Value	0.22 0.031	0.23 0.033	0.25 0.036	0.26 0.037	0.27 0.038		
Service Temperature**		-70 °F to 257 °F -57 °C to 125 °C					Maxflex [®] becomes hard at -57 °C but can be used even at -200 °C	
Water Vapor Permeability (kg / Pa.s.m)		0.10 perm-in (0.15 x 10 ⁻¹²)					ASTM C 355 ASTM E96***	PSB corp., Singapore
Moisture Resistance (μ Value)		μ not less than 10,000					DIN 52615	PSB corp., Singapore
Water Absorption (weight %)		not more than 1.5%					ASTM D 1056	PSB corp., Singapore
Ozone Resistance		Non crack					ASTM D 1171	PSB corp., Singapore
Heat Stability (% shrinkage) at 200 °F and 220 °F for 7 days		3.5 and 4.5 respectively					ASTM C 534	PSB corp., Singapore
Flammability & Smoke Density		class V0					UL - 94	PSB corp., Singapore
		Self-extinguishing					ASTM D635	PSB corp., Singapore
		class 1					BS476 Part 7	PSB corp., Singapore
		B2					DIN 4102	Body Coat., Germany
		Smoke Developed < 50 (15 mm. thickness)					ASTM E 84	SGS, USA
		class M1					FRANCE AFNOR NF P92 501	Crepim, France
Nitrosamine Contents		not detected					BS EN 12868	PSB corp., Singapore
Fungus Resistance		passed					ASTM G 21	PSB corp., Singapore
Noise Reduction		36.3 db					DIN 52219	IBP, German
Flexibility		excellent					-	-

Specifications comply with ASTM C 534-08

NOTE: * Figures show the average values obtained by the world well-known testing institutes.

** At temp. under -57 °C MAXFLEX® becomes hard, but it doesn't affect thermal conductivity nor water vapor permeability.

*** Water vapor permeability test was done under test method ASTM E96 dehydrate test method at 37.8 °C

Sound Absorption Coefficient at Frequency

Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1" (25mm.)	0.295	0.265	0.755	0.263	0.408	0.448	0.40

Sound Transmission Class (STC)

Thickness	STC Class
1" (25mm.)	25





Established in 1988, Vandapac Co., Ltd. is a world class manufacturer for OMD and quality products in 3 main groups:

- Disposable Packaging
- Automotive Accessories
- Thermal Insulation

VANDAPAC's Insulation Division is premier manufacturer of closed cell elastomeric thermal insulation. Products developed from ethylene propylene diene monomer synthetic rubbers research. Produced by using a specially designed manufacturing technique.

Universal confidence in the international standard and quality of our thermal insulation products is reflected by the fact that we export MAXFLEX® all over the world.

Vandapac Co., Ltd.

Factory : 700 / 135 Moo 5, Klongtumru, Muang Chonburi, Chonburi 20000, Thailand.

Office : 93 Moo 15 Watkingkaew Rd., Bangpleeyai, Bangplee, Samutprakarn 10540, Thailand

Tel : (66 2) 312-4147-50, (66 2) 750-1560 Fax : (66 2) 750-4141

Email : maxflex@vandapac.com <http://www.maxflexinsulation.com>

