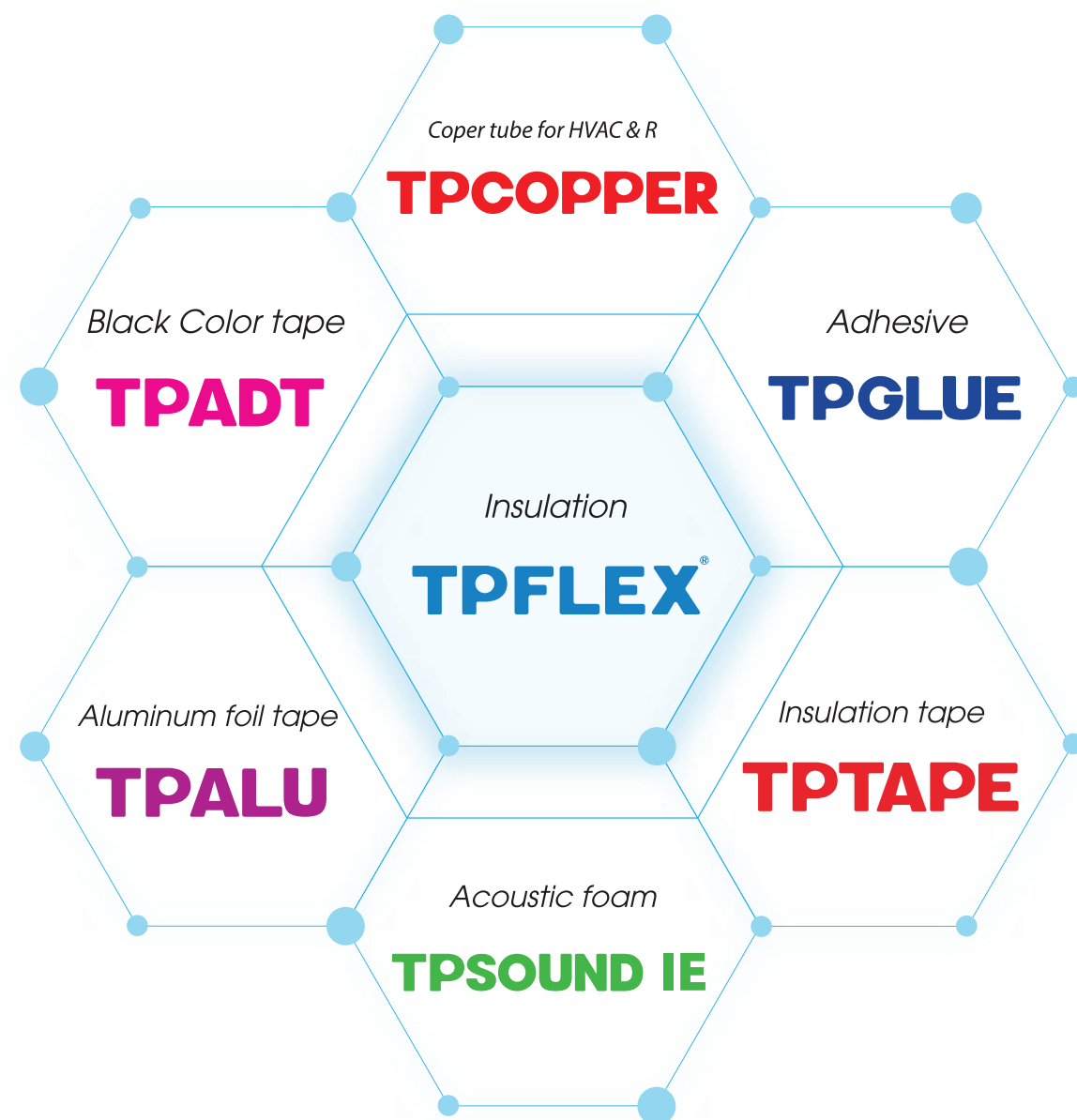




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TPFLEX®

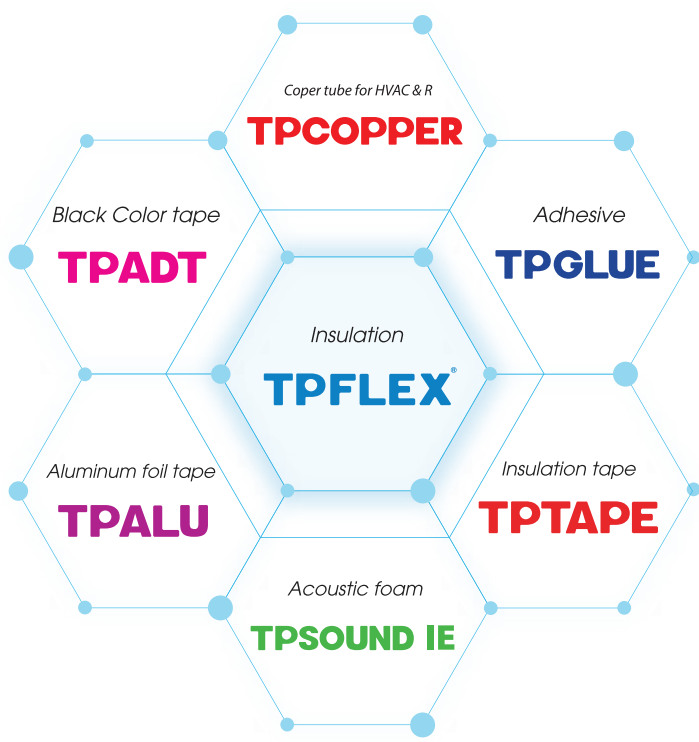


Total Insulation Solution



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INTRODUCTION

TPTECH INTERNATIONAL JOINT STOCK COMPANY would like to send respectful greetings to Customers and Partners. TPTECH is the professional insulation manufacturer in Vietnam providing total solutions for insulation and sound absorption used in HVAC&R industry.

Located in Yen My II Industrial Park, Hung Yen Province with almost 33.000 square meters, TPTECH is intergrated place of well- skilled leading experts and technicians, modest European technological machinery, professional production management process guaranteeing to produce products with international standards.

We are sincerely thankful and hope to corporate with valued customers and partners.



CHARACTERISTICS

TPFLEX NBR/PVC elastomeric foam insulation

Closed cell structure | The closed cell structure of TPFLEX helps highly resist water vapor, low Thermal conductivity and it is suitable for in- door applications without protection layer.

Low thermal conductivity | TPFLEX insulation has low and stable thermal conductivity while using to optimize heat loss in HVAC&R system.

Save energy | TPFLEX products based on NBR material, with Closed-Cell structure and low thermal conductivity that increased enegy efficiency in HVAC and building industry. Our products will help saving your money in HVAC system

Fire performance | TPFLEX products have passed qualified certificates such as: Class O, Class V-0, Class C-s1-d0 ensuring to excellent fire resistance and highest international fire standards.

Flexible installation | With the high flexibility, TPFLEX is very easy to install in most of places, even with the narrow areas and extraordinary- shaped tubes.

Environment protection | Fibre-free, no formaldehyde and low VOCs, TPFLEX helps protect environment and maintain fresh air within system.

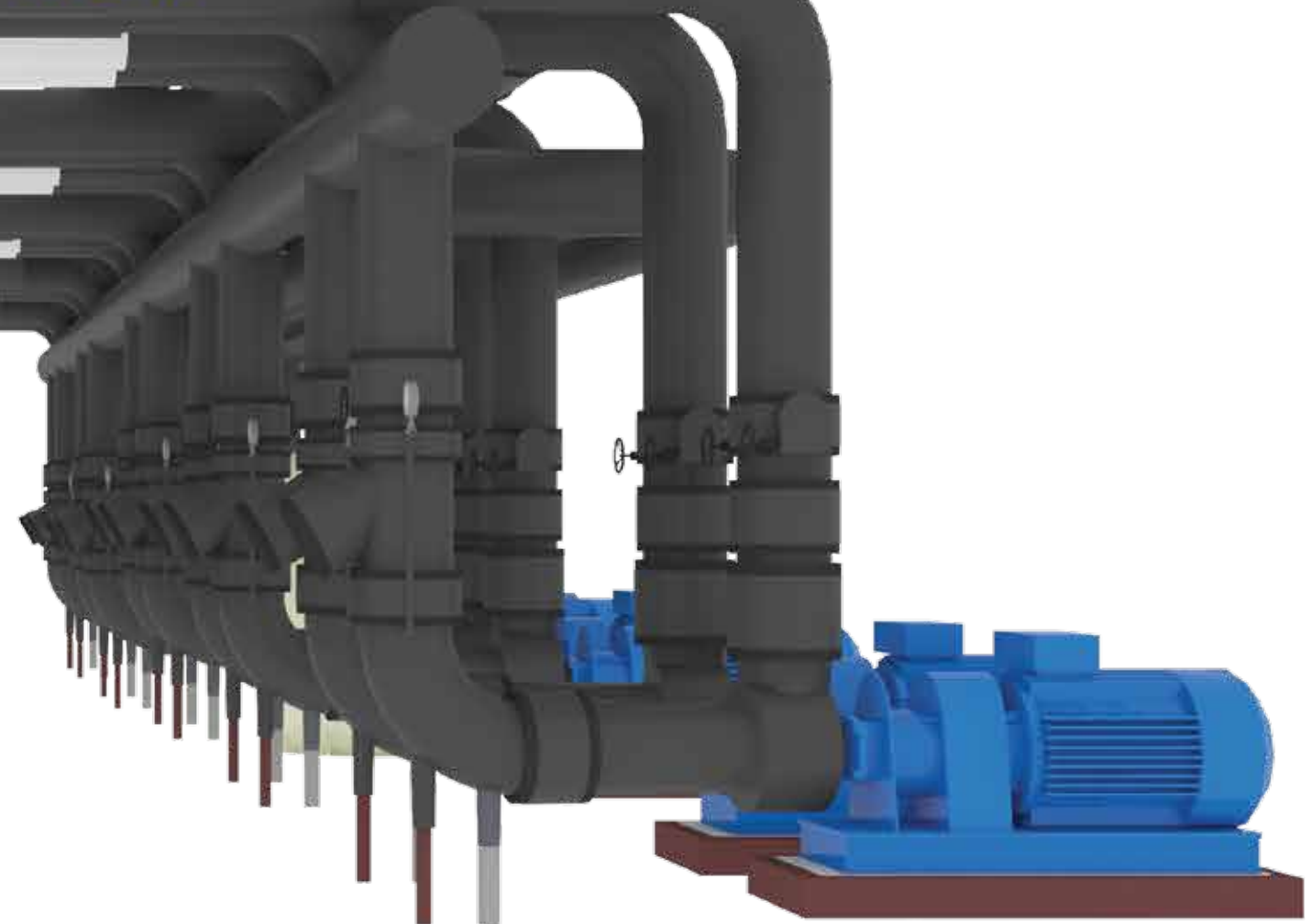
Sound absorption | Besides being insulation products, TPFLEX is good sound absorption material and reduces noise generated by equipment, air movement and water flow inside the duct.

APPLICATIONS



TPFLEX is NBR based insulation with superior design, energy saving designed for insulating liquid cooling and heating pipelines in HVAC&R. Besides, TPFLEX is free-fibre material, low VOCs, so it is the ideal product to use in clean- room for food factories, pharmaceutical industry, electromatic, server room.

TPFLEX®



TPFLEX significant applications

- | | |
|------------------|------------------------------------|
| ① Copper piping | ⑤ Hot water |
| ② Ducting | ⑥ Sound reduction |
| ③ Chiller system | ⑦ Ceiling insulation |
| ④ Water piping | ⑧ Other insulating applications... |

www.tptechgroup.com

CERTIFICATE

TPFLEX fully meets the following standards:

- + COC Class 0

+ UL 94 Certificate

+ ISO 9001: 2015

+ ISO 14001: 2015

+ GreendGuad Gold

+ Singapore Green Building
- + Certificate of Conformity BS 476 part 6,7

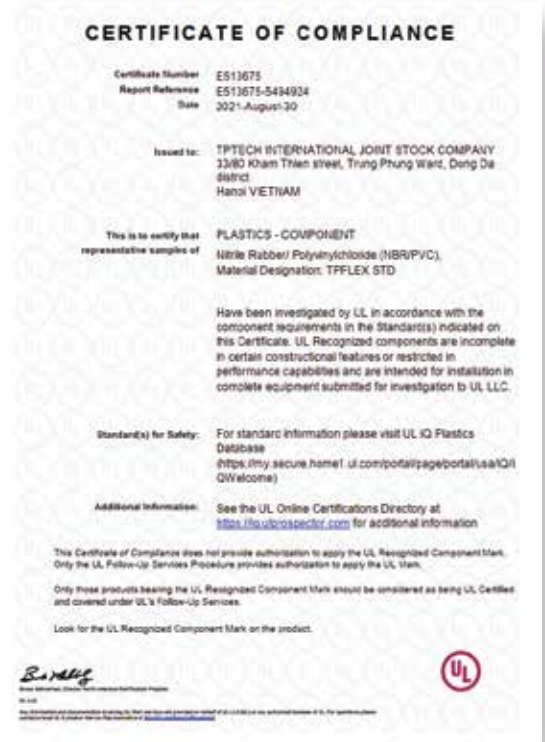
+ American standard for Safety of flammability

+ Quality management systems

+ Enviromental management systems

+ Gold Standard for total VOC Emissions

+ Excellent (3 ticks)



THICKNESS RECOMMENDATION

Chiller, Refrigeration & Ducting System

Cool System		RH = 70%	RH = 80%	RH = 85%
Copper Pipe	t = 5°C	ID 6mm to 19mm : 13mm ID 19mm to 54mm : 19mm ≥ ID 55mm: 25mm	ID 6mm to 19mm : 19mm ID 19mm to 42mm : 25mm > ID 42mm: 25mm	ID 6mm to 22mm : 25mm ID 25mm to 54mm : 32mm ≥ ID 55mm: 32mm
Chiller	t = 7°C	DN15 to DN 32: 13mm DN 40 to DN 80: 19mm DN 100 to DN 250: 25mm > DN 250 mm: 32mm	DN15 to DN 32: 19mm DN 40 to DN 80: 25mm DN 100 to DN 250: 32mm > DN 250 mm: 38,50 mm	DN15 to DN 32: 25mm DN 40 to DN 80: 32mm DN 100 to DN 250: 38mm > DN 250 mm: 50mm
Drain pipe	t = 17°C	DN 20 to DN 80: 10mm ≥ ID 100: 13mm	DN 20 to DN 80: 13mm ≥ ID 100: 19mm	DN 20 to DN 80: 19mm ≥ ID 100: 25mm
Ducting	t = 15°C	Thickness: 10mm	Thickness: 16mm	Thickness: 25mm

The table above is based on calculative condition:

- Ambient temperature 32°C - 35°C
- Convection coefficient h= 8 -10 (medium convection)
- Thermal conductivity K- value= 0.035 W/mk

Hot water System

This table above is based on calculative condition:

- Ambient temperature 28°C
- Convection coefficient h= 8-10 (medium convection)
- Thermal conductivity K- value= 0.035 W/mk

Notes: With hot water system, the heat loss on the pipe depends on

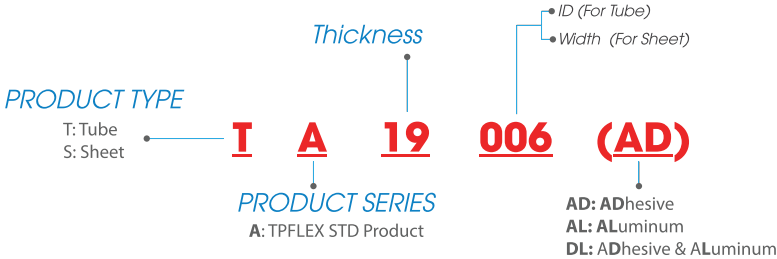
+ Length of hot water pipe

+ Time to keep water on the pipe

Contact with technical department for more details.

ID (mm)	Surface Temperatures°C		
	29°C	32°C	35°C
PPR D16	56	17,5	10,6
PPR D20	58	18	11
PPR D25	61	19	11,3
PPR D32	64	20	11,7
PPR D40	67	21	12
PPR D50	70	22	12,4
PPR D63	74	22,5	12,8
PPR D75	76	23	13
PPR D90	79	23,6	13,2
PPR D110	83	24,3	13,5
PPR D125	85	24,7	13,7
PPR D140	86	25	15

TPFLEX STD



TPFLEX STD is a high standard product, which is manufactured according to the ASTM C534 standard. TPFLEX STD is popularly used in refrigeration industry in purpose of preventing condensation and saving energy. The products have low and stable thermal conductivity K- value, high water vapour permeability μ value and achieve USA fire test UL 94 Class V-0

SPECIFICATIONS (Tube & Sheet)

Key properties	Value/Assessment			Test method/Standard
General				
Material	Elastomeric Foam, NBR based			
Colour	Black (basic) & others			For other color, please contact with technical department
Cell structure	Completely closed cell			-
Density (kg/m³)	40 to 80			ASTM D1667
Service temperature	-50°C to +105°C			For other temperature, please contact with technical department
Life-time				
Sevice life-time under proper installation condition	≥ 10 years			
Thermal conductivity				
K- value (W/m.K)	0°C	20°C	40°C	ASTM C518
	0.033	0.035	0.037	
Water vapour behavior				
Water Vapour Permeability	≤2.5 x 10 ⁻¹¹ g/(m.s.Pa)			EN 12086-13
Water Vapour Resistance	μ ≥ 30,000 (with aluminum)			ASTM E96
	μ ≥ 10,000 (without aluminum)			EN 12086-13
Water Absorption	≤0.1% (by volume)			ASTM C209
Fire behavior				
Fire performance	Class V-0 , 5-VA (Self - extinguishing, no dripping)			UL - 94 Certificate
	Class 1			BS 476 part 7
	BC1			QCVN06-2020
Health				
	Low TVOCs			ISO 16000
	REACH			
	RoHS II			IEC 62321
	Anti - Microbial			ASTM E2180
	Fungal resistance			ASTM G21
Environment				
Singapore Green Building	Excellent (✓✓✓)			
Greenguard	Gold			
UV resistance	For UV protection, covering system is required			
Other technical data				
Sound reduction	NRC = 0.4 (25 mm)			ASTM C423-17
Flexibility	Excellent			
Heat stability (% shrinkage)	≤ 7%			ASTM C534

PACKING

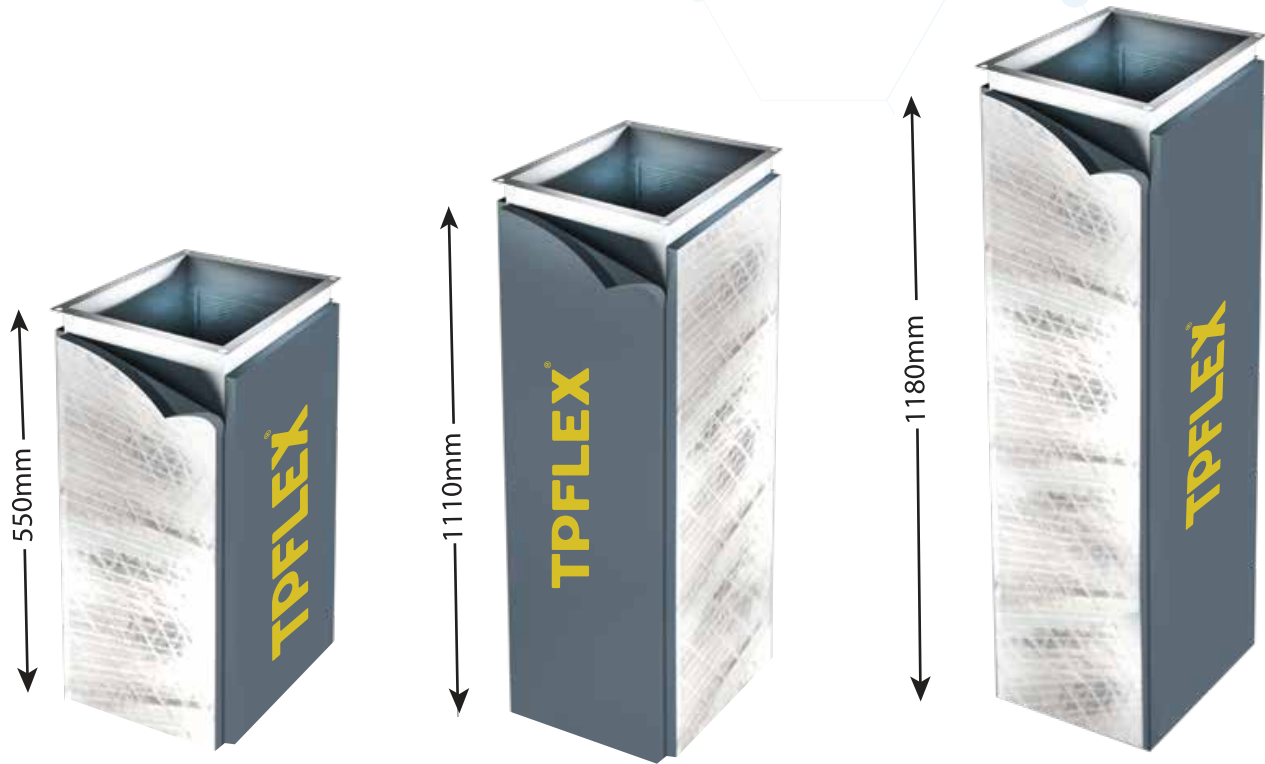
TPFLEX STD Sheet

Providing all requirements in a variety of diameters thicknesses and lengths

Thickness (mm)	Length (m)	Area/Roll (m2)	
		1.22m Width	1.40m Width
6	15	SA06122 (18.3)	SA06140 (21)
10	10	SA10122 (12.2)	SA10140 (14)
13	8	SA13122 (9.76)	SA13140 (11.2)
16	7	SA16122 (8.54)	SA16140 (9.8)
19	6	SA19122 (7.32)	SA19140 (8.4)
25	4	SA25122 (4.88)	SA25140 (5.6)
32	3	SA32122 (3.66)	SA32140 (4.2)
38	3	SA38122 (3.66)	SA38140 (4.2)
50	2.5	SA50122 (3.05)	SA50140 (3.5)



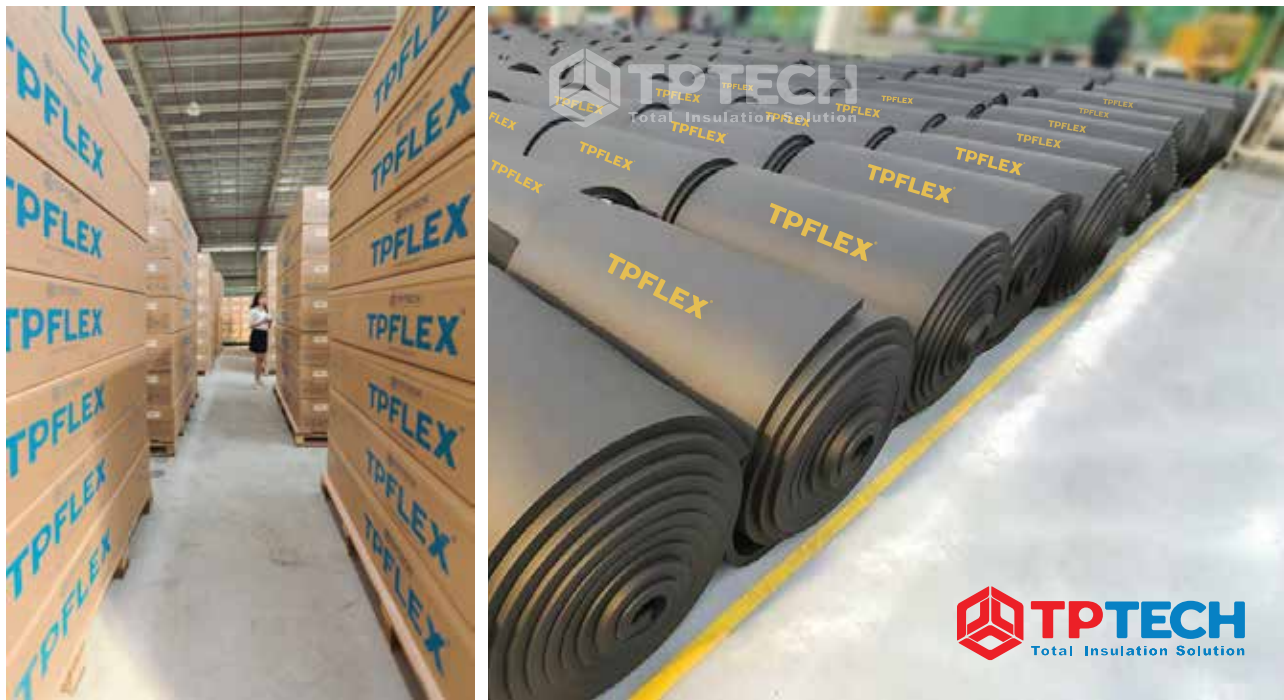
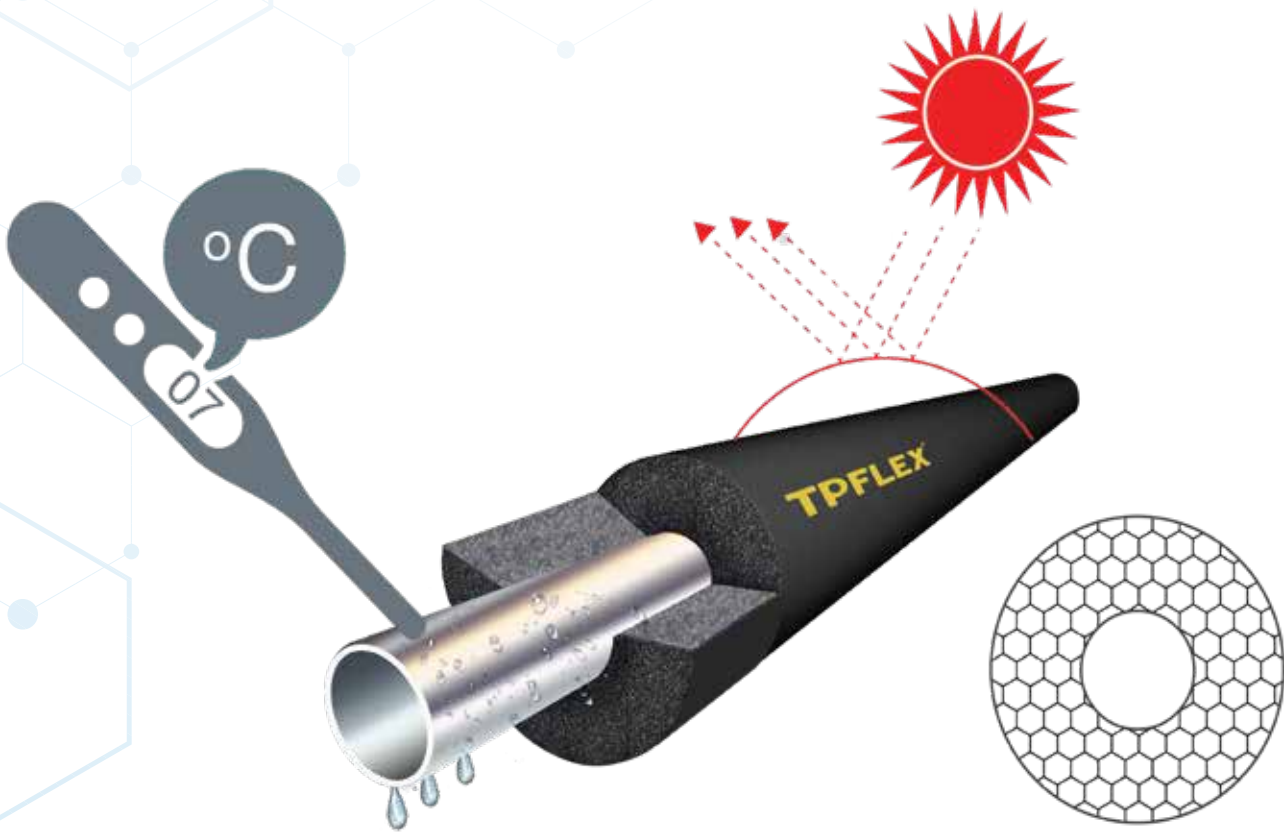
- + Sheet roll with adhesive side: add "AD" at the end of code
- + Sheet roll with aluminum laminated: add "AL" at the end of code
- + Sheet roll with aluminum and adhesive laminated: add "DL" at the end of code



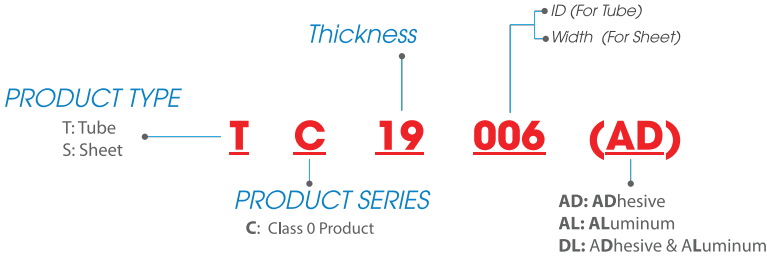
TPFLEX STD Tube: 2M length/pcs

Providing all requirements in a variety of diameters, thicknesses and lengths

I.D. SIZE		Code Number (Quantity: Pieces/ Carton)						
MM	INCH	10 mm wall	13 mm wall	19 mm wall	25 mm wall	32 mm wall	38 mm wall	50mm wall
6	1/4"	TA10006 (169)	TA13006 (120)	TA19006 (54)	TA25006 (30)	TA32006 (18)	TA38006 (*)	TA50006 (*)
10	3/8"	TA10010 (132)	TA13010 (90)	TA19010 (49)	TA25010 (30)	TA32010 (18)	TA38010 (10)	TA50010 (*)
13	1/2"	TA10013 (100)	TA13013 (78)	TA19013 (42)	TA25013 (28)	TA32013 (16)	TA38013 (10)	TA50013 (*)
16	5/8"	TA10016 (96)	TA13016 (68)	TA19016 (39)	TA25016 (25)	TA32016 (16)	TA38016 (9)	TA50016 (*)
19	3/4"	TA10019 (81)	TA13019 (62)	TA19019 (34)	TA25019 (23)	TA32019 (16)	TA38019 (9)	TA50019 (*)
22	7/8"	TA10022 (68)	TA13022 (53)	TA19022 (30)	TA25022 (20)	TA32022 (12)	TA38022 (9)	TA50022 (6)
25	1"	TA10025 (56)	TA13025 (42)	TA19025 (25)	TA25025 (20)	TA32025 (12)	TA38025 (8)	TA50025 (6)
28	1-1/8"	TA10028 (54)	TA13028 (42)	TA19028 (25)	TA25028 (18)	TA32028 (10)	TA38028 (8)	TA50028 (5)
32	1-1/4"	TA10032 (42)	TA13032 (33)	TA19032 (22)	TA25032 (16)	TA32032 (10)	TA38032 (8)	TA50032 (5)
35	1-3/8"	TA10035 (36)	TA13035 (33)	TA19035 (20)	TA25035 (15)	TA32035 (10)	TA38035 (8)	TA50035 (5)
38	1-1/2"	TA10038 (36)	TA13038 (28)	TA19038 (18)	TA25038 (12)	TA32038 (9)	TA38038 (8)	TA50038 (4)
42	1-5/8"	TA10042 (35)	TA13042 (28)	TA19042 (18)	TA25042 (12)	TA32042 (9)	TA38042 (6)	TA50042 (4)
48	1-7/8"	TA10048 (30)	TA13048 (24)	TA19048 (15)	TA25048 (12)	TA32048 (8)	TA38048 (6)	TA50048 (4)
51	2"	TA10051 (30)	TA13051 (22)	TA19051 (14)	TA25051 (11)	TA32051 (8)	TA38051 (6)	TA50051 (4)
54	2-1/8"	TA10054 (30)	TA13054 (22)	TA19054 (14)	TA25054 (10)	TA32054 (7)	TA38054 (6)	TA50054 (4)
60	2-3/8"	TA10060 (30)	TA13060 (22)	TA19060 (14)	TA25060 (10)	TA32060 (6)	TA38060 (6)	TA50060 (4)
64	2-1/2"		TA13064 (20)	TA19064 (12)	TA25064 (9)	TA32064 (6)	TA38064 (4)	TA50064 (4)
67	2-5/8"		TA13067 (20)	TA19067 (12)	TA25067 (8)	TA32067 (6)	TA38067 (4)	TA50067 (4)
76	3"		TA13076 (16)	TA19076 (12)	TA25076 (8)	TA32076 (6)	TA38076 (4)	TA50076 (3)
89	3-1/2"		TA13089 (14)	TA19089 (12)	TA25089 (6)	TA32089 (5)	TA38089 (4)	TA50089 (3)
108	4-1/4"		TA13108 (9)	TA19108 (8)	TA25108 (6)	TA32108 (4)	TA38108 (3)	TA50108 (3)
114	4-1/2"		TA13114 (9)	TA19114 (6)	TA25114 (5)	TA32114 (4)	TA38114 (3)	TA50114 (2)
140	5-1/2"			TA19140 (6)	TA25140 (4)	TA32140 (4)	TA38140 (2)	TA50140 (2)
165	6-1/2"				TA25165 (3)	TA32165 (3)	TA38165 (2)	TA50165 (2)
168	6-5/8"				TA25168 (3)	TA32168 (2)	TA38168 (2)	TA50168 (2)



TPFLEX CLASS 0



TPFLEX CLASS 0 is a premium standard product, which is manufactured according to the ASTM C534 standard and meet England fire standard BS. Products have low flame spread following BS 476 part 7 and low fire propagation following BS 476 part 6.

SPECIFICATIONS (Tube & Sheet)

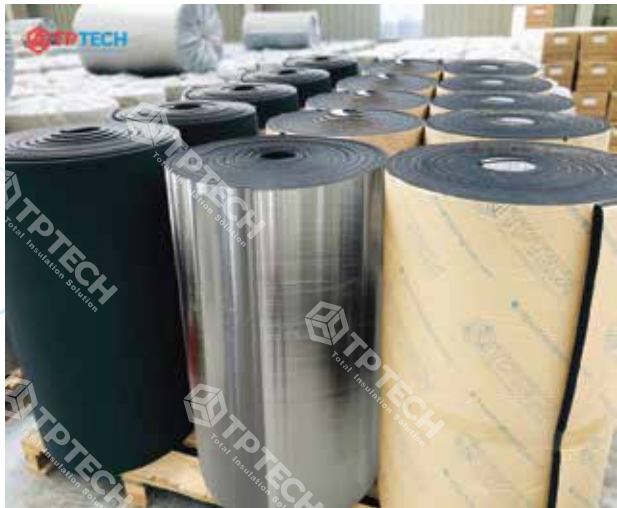
Key properties	Value/Assessment			Test method/Standard
General				
Material	Elastomeric Foam, NBR			For other color , please contact with technical department
Colour	Black (basic) & others			
Cell structure	Completely closed cell			
Density (kg/m³)	40 to 80			ASTM D1667
Service temperature	-50°C to +105°C			For other temperature, please contact with technical department
Life-time				
Sevice life-time under proper installation condition	≥ 10 years			
Thermal conductivity				
K- value (W/m.K)	0°C	20°C	40°C	ASTM C518
	0.033	0.035	0.037	
Water vapour behavior				
Water Vapour Permeability	≤2.5 x 10 ⁻¹¹ g/(m.s.Pa)			EN 12086-13
Water Vapour Resistance	μ ≥ 30,000 (with aluminum) μ ≥ 10,000 (without aluminum)			ASTM E96 EN 12086-13
Water Absorption	≤0.1% (by volume)			ASTM C209
Fire behavior				
Fire performance	Class 0			BS476 Part 6 & 7
	Class C - s1, d0			EN 13501
	Class V-0, 5-VA (Self - extinguishing, no dripping)			UL - 94
	Class B1			GB 8624
Health				
	Low TVOCs			ISO 16000
	REACH			
	RoHS II			IEC 62321
	Anti - Microbial			ASTM E2180
	Fungal resistance			ASTM G21
Environment				
Singapore Green Building	Excellent (✓✓✓)			
Greenguard	Gold			
UV resistance	For UV protection, covering system is required			
Other technical data				
Sound reduction	NRC = 0.4 (25mm)			ASTM C423-17
Flexibility	Excellent			
Heat stability (% shrinkage) at 104°C in 7 days	≤ 7%			ASTM C534

TPFLEX CLASS 0 Tube: 2M length /pcs

Providing all requirements in a variety of diameters, thicknesses and lengths

TPFLEX Class 0 Sheet

Providing all requirements in a variety of diameters, thicknesses and lengths



Thickness (mm)	Length (m)	Area/Roll (m2)		
		1.0m Width	1.22m Width	1.40m Width
6	15	SC06100 (15)	SC06122 (18.3)	SC06140 (21)
10	10	SC10100 (10)	SC10122 (12.2)	SC10140 (14)
13	8	SC13100 (8)	SC13122 (9.76)	SC13140 (11.2)
16	7	SC16100 (7)	SC16122 (8.54)	SC16140 (9.8)
19	6	SC19100 (6)	SC19122 (7.32)	SC19140 (8.4)
25	4	SC25100 (4)	SC25122 (4.88)	SC25140 (5.6)
32	3	SC32100 (3)	SC32122 (3.66)	SC32140 (4.2)
38	3	SC38100 (3)	SC38122 (3.66)	SC38140 (4.2)
50	2.5	SC50100 (2.5)	SC50122 (3.05)	SC50140 (3.5)

- + Sheet roll with adhesive side: add "AD" at the end of code
- + Sheet roll with aluminum laminated: add "AL" at the end of code
- + Sheet roll with aluminum and adhesive laminated: add "DL" at the end of code



I.D. SIZE		Code Number (Quantity: Pieces/ Carton)						
MM	INCH	10 mm wall	13 mm wall	19 mm wall	25 mm wall	32 mm wall	38 mm wall	50mm wall
6	1/4"	TC10006 (169)	TC13006 (120)	TC19006 (54)	TC25006 (30)	TC32006 (18)	TC38006 (*)	TC50006 (*)
10	3/8"	TC10010 (132)	TC13010 (90)	TC19010 (49)	TC25010 (30)	TC32010 (18)	TC38010 (10)	TC50010 (*)
13	1/2"	TC10013 (100)	TC13013 (78)	TC19013 (42)	TC25013 (28)	TC32013 (16)	TC38013 (10)	TC50013 (*)
16	5/8"	TC10016 (96)	TC13016 (68)	TC19016 (39)	TC25016 (25)	TC32016 (16)	TC38016 (9)	TC50016 (*)
19	3/4"	TC10019 (81)	TC13019 (62)	TC19019 (34)	TC25019 (23)	TC32019 (16)	TC38019 (9)	TC50019 (*)
22	7/8"	TC10022 (68)	TC13022 (53)	TC19022 (30)	TC25022 (20)	TC32022 (12)	TC38022 (9)	TC50022 (6)
25	1"	TC10025 (56)	TC13025 (42)	TC19025 (25)	TC25025 (20)	TC32025 (12)	TC38025 (8)	TC50025 (6)
28	1-1/8"	TC10028 (54)	TC13028 (42)	TC19028 (25)	TC25028 (18)	TC32028 (10)	TC38028 (8)	TC50028 (5)
32	1-1/4"	TC10032 (42)	TC13032 (33)	TC19032 (22)	TC25032 (16)	TC32032 (10)	TC38032 (8)	TC50032 (5)
35	1-3/8"	TC10035 (36)	TC13035 (33)	TC19035 (20)	TC25035 (15)	TC32035 (10)	TC38035 (8)	TC50035 (5)
38	1-1/2"	TC10038 (36)	TC13038 (28)	TC19038 (18)	TC25038 (12)	TC32038 (9)	TC38038 (8)	TC50038 (4)
42	1-5/8"	TC10042 (35)	TC13042 (28)	TC19042 (18)	TC25042 (12)	TC32042 (9)	TC38042 (6)	TC50042 (4)
48	1-7/8"	TC10048 (30)	TC13048 (24)	TC19048 (15)	TC25048 (12)	TC32048 (8)	TC38048 (6)	TC50048 (4)
51	2"	TC10051 (30)	TC13051 (22)	TC19051 (14)	TC25051 (11)	TC32051 (8)	TC38051 (6)	TC50051 (4)
54	2-1/8"	TC10054 (30)	TC13054 (22)	TC19054 (14)	TC25054 (10)	TC32054 (7)	TC38054 (6)	TC50054 (4)
60	2-3/8"	TC10060 (30)	TC13060 (22)	TC19060 (14)	TC25060 (10)	TC32060 (6)	TC38060 (6)	TC50060 (4)
64	2-1/2"		TC13064 (20)	TC19064 (12)	TC25064 (9)	TC32064 (6)	TC38064 (4)	TC50064 (4)
67	2-5/8"		TC13067 (20)	TC19067 (12)	TC25067 (8)	TC32067 (6)	TC38067 (4)	TC50067 (4)
76	3"		TC13076 (16)	TC19076 (12)	TC25076 (8)	TC32076 (6)	TC38076 (4)	TC50076 (3)
89	3-1/2"		TC13089 (14)	TC19089 (12)	TC25089 (6)	TC32089 (5)	TC38089 (4)	TC50089 (3)
108	4-1/4"		TC13108 (9)	TC19108 (8)	TC25108 (6)	TC32108 (4)	TC38108 (3)	TC50108 (3)
114	4-1/2"		TC13114 (9)	TC19114 (6)	TC25114 (5)	TC32114 (4)	TC38114 (3)	TC50114 (2)
140	5-1/2"			TC19140 (6)	TC25140 (4)	TC32140 (4)	TC38140 (2)	TC50140 (2)
165	6-1/2"				TC25165 (3)	TC32165 (3)	TC38165 (2)	TC50165 (2)
168	6-5/8"				TC25168 (3)	TC32168 (2)	TC38168 (2)	TC50168 (2)

SPECIFICATIONS

TPSOUND IE

TPSOUND IE is NBR / PVC based vulcanized rubber insulation semi-open cell structure

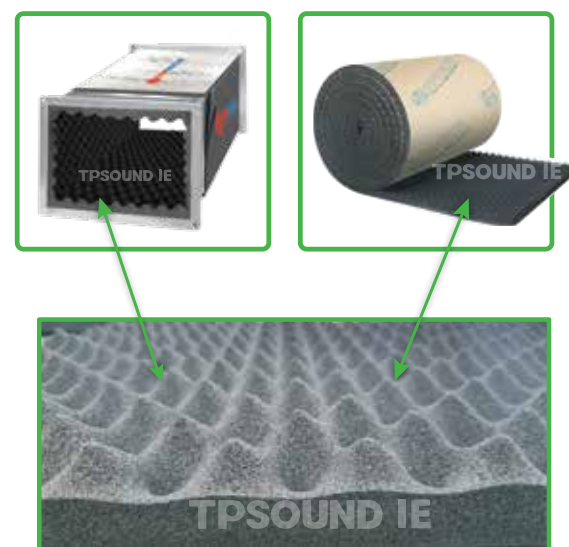
Applications	Ventilation duct Waste water pipes
Fire Performance	UL 94 Class V-0 BS 476 part 6,7 Class 0
Material	Elastomeric Insulation, NBR
Color	Black colour, built-in adhesive
Cell structure	Semi-open cell
Density	40 - 80 kg/m3
Coefficient of thermal conductivity	0.035 W/m.K at 20°C
The Noise Reduction Coefficient (NRC)	min 0.4 (25mm)
Surface Temperature	-50°C -> 105°C
Health	Dust & fibre free Low TVOCs REACH RoHS II Anti - Microbial Fungal resistance

PACKING

Thickness (mm)	Length (m)	Area / Roll (m2)	
		1.0m Width	1.22m Width
25	4	IE25100 (4)	IE25122 (4.88)

Sheet roll with adhesive side: add "AD" at the end of code

Providing all requirements in a variety of diameters, thicknesses and lengths



TPADT

• PVC6525 adopts black color PVC film as backing, combined with a high performance solvent acrylic adhesive, It is mainly used for rubber foam packaging and sealing.

PROPERTIES	METRIC	TEST METHOD
Backing Thickness	110 Microns	PSTC-133 / ASTM D 3652
Adhesion to Steel	20 N/25mm	PSTC-133 / ASTM D 3652
Rolling Tack	10 mm	PSTC-101 / ASTM D 3330
Service Temperature	-20 ~ +60 °C	PSTC-6 / ASTM D 3121
Applying Temperature	+10 ~ 40 °C	PSTC-131 / ASTM D 3759



THICKNESS	WIDTH	LENGTH	ROLLS/ CARTON
0.11mm	50mm	50m	24
0.11mm	75mm	50m	16

TPALU

TPALU 16 - ALUMINUM FOIL TAPE

• A 16 micron (0.64 mil) high tensile strength aluminum foil backing, combined with a high performance rubber resin adhesive, protected by an easy-release silicone release paper.

PROPERTIES	METRIC	ENGLISH	TEST METHOD
Backing Thickness	16 Micron	0.64 Mil	PSTC-133 / ASTM D 3652
Total Thickness	40 Micron	1.6 Mil	PSTC-133 / ASTM D 3652
Adhesion to Steel	12 N/25mm	43.2 Oz./In.	PSTC-101 / ASTM D 3330
Tack Rolling Ball	15 cm	6 In.	PSTC-6 / ASTM D 3121
Tensile Strength	30 N/25mm	9.1 Lb/In	PSTC-131 / ASTM D 3759
Elongation	3.0 %	3.0 %	PSTC-131 / ASTM D 3759
Service Temperature	-20 ~ +80 °C	-4 ~ +176 °F	-----
Applying Temperature	+10 ~ 40 °C	+50 ~ +105 °F	-----



CODE	THICKNESS	WIDTH	LENGTH	ROLLS/ CARTON
TPALU16	16 Micron	50mm	25m	36

TPALU 120 - ALUM - GLASS CLOTH TAPE

• Aluminum-Glass Cloth backing (7u Foil / FR Glue / 12x12 Mesh Glass Cloth), combined with a high performance synthetic rubber-resin adhesive, protected by an easy-release silicone release paper.

PROPERTIES	METRIC	ENGLISH	TEST METHOD
Backing Thickness	120 Micron	4.8 Mil	PSTC-133 / ASTM D 3652
Total Thickness	160 Micron	6.4 Mil	PSTC-133 / ASTM D 3652
Adhesion to Steel	18 N/25mm	64.8 Oz./In.	PSTC-101 / ASTM D 3330
Tack Rolling Ball	20 cm	8 In.	PSTC-6 / ASTM D 3121
Tensile Strength	255 N/25mm	58.0 Lb/In	PSTC-131 / ASTM D 3759
Elongation	3.0 %	3.0 %	PSTC-131 / ASTM D 3759
Service Temperature	-20 ~ +80 °C	-4 ~ +176 °F	-----
Applying Temperature	+10 ~ 40 °C	+50 ~ +105 °F	-----



CODE	THICKNESS	WIDTH	LENGTH	ROLLS/ CARTON
TPALU120	120 Micron	50mm	25m	36
TPALU120	120 Micron	75mm	50mm	24

1. Flexible Duct with Polyester Insulation

Specifications

Key properties	Specifications
Material	Aluminium Foil/ Steel Wire/Polyester Insulation
Aluminium foil thickness	23 Micron
Density	12kg/m ³
Length	8m
Thickness	25mm
Used Temperature	-30°C to +140°C
Used Pressure	300mm WG
Used Wind Speed	30m/s
Size	Ø100mm to Ø450 mm x 8m

Layer 3: The outside of the duct is a 23 micron thick PET aluminum film.

Increasing the aesthetic value, making the cleaning process simpler, and increasing the life of the duct.



Layer 1: The innermost layer is 23 micron thick PET aluminum film, which has anti-oxidation effect, protects the ductwork from the impact of the environment such as moisture-proof, UV-resistant, and reduces the rate of heat loss. Galvanized stainless steel core strengthens anti-distortion effect, increases rigidity.

Layer 2: Polyester insulation

Advantages:

1. Polyester fiber is dust-free, not hygroscopic, waterproof, not affected by microorganisms such as bacteria, mold, does not produce fine dust.
2. The product is safe for users' health.
3. Polyester fiber is not aged over time,TPDUCT insulation has high durability.



Packing

Providing all requirements in a variety of diameters, layers and lengths.

Code Number	ID size mm	Length (m)
TDI100	100	8
TDI125	125	8
TDI150	150	8
TDI200	200	8
TDI250	250	8
TDI300	300	8
TDI350	350	8
TDI400	400	8
TDI450	450	8

2. Aluminium Foil Flexible Duct

Packing

Code Number	ID size mm	Length (m)
TDN100	100	8
TDN125	125	8
TDN150	150	8
TDN200	200	8
TDN250	250	8
TDN300	300	8
TDN350	350	8
TDN400	400	8
TDN450	450	8

Specifications

- Material : Aluminium Foil / Steel Wire
- Thickness : 23 Micron
- Length : 8m
- Used Temperature : -30°C to +140°C
- Used Pressure : 300mm WG
- Used Wind Speed : 30 m/s



Providing all requirements in a variety of diameters, layers and lengths.

3. Acoustic Flexible Duct with Polyester Insulation

Specifications

Key properties	specifications
Quality of the Material	Aluminium Foil/ Steel Wire/ Polyester Insulation Steel Wire
Aluminium foil thickness	23 Micron
Sound Reduction	0.5
Density	12kg/m ³
Length	8m
Thickness	25mm
Used Temperature	-30°C to +140°C
Used Pressure	300mm WG
Used Wind Speed	30m/s
Size of Manufacture	Ø100mm to Ø450 mm x 8m

The innermost layer is a 23 Micron thick PET aluminum film, with tiny holes for better sound absorption



Packing

Code Number	ID size mm	Length (m)
TDA100	100	8
TDA125	125	8
TDA150	150	8
TDA200	200	8
TDA250	250	8
TDA300	300	8
TDA350	350	8
TDA400	400	8
TDA450	450	8



Providing all requirements in a variety of diameters, layers and lengths.

TPTAPE

DESCRIPTION

TPTAPE is an elastomeric closed cell self- adhesive foam gasket tape for cooling and heating air-duct joint connections to prevent air leakage, reduce vibration/ noise and also serves as thermal insulation to prevent condensation and heat transfer. With arcylic pressure sensitive adhensive, TPTAPE is easily installed on the surface of the connection joint.

SPECIFICATION

Material	Closed cell foam NBR
Color	Black
Density	40-60 kg/m3
Hardness	40-60 shore C2
Water absorptipn	< 2% by Volume
Compression Deflection	6-8 PSI
Tensile strength	More than 60 PSI (4.2 kg/cm2)
Elongation at break	More than 200%
Service Temperature	-40°C to 105°C
Thermal Conductivity	0.04 w/mk at 20°C
Flammability	UL 94 Class V-0
Adhesive type	Acrylic Pressure Sensitive adhesive
Initial tack	3.0 cm



PACKING

CODE	THICKNESS	WIDTH	LENGTH	PACKING
TPTAPE 520	5mm	20mm	10m	24
TPTAPE 525	5mm	25mm	10m	24
TPTAPE 532	5mm	32mm	10m	14
TPTAPE 540	5mm	40mm	10m	12
TPTAPE 325	3mm	25mm	9.1m	30
TPTAPE 350	3mm	50mm	9.1m	15



TPGLUE

DESCRIPTION

A black, air-drying contact adhesive that is excellent for joining seams and butt joints of TPFLEX Pipe and Sheet Insulations .

1. Surfaces of materials: dry, clean and free from dust, sand, oil, grease
2. Stir TPGGLUE well and use short hair brush to apply a layer of TPGGLUE on the 2 joining surfaces
3. After applying TPGGLUE on the surface, wait for the solvent to evaporate about 5-30 minutes depending on the glue content until the surface is dry and sticky
4. Time required for 2 surfaces to be bonded:
 - + Minimum 5 minutes: non-absorbent or non-permeable surfaces such as PVC, PPR, steel pipes,.
 - + Minimum 2 minutes: with absorbent or permeable surfaces such as TPFLEX insulation,
5. Press the surfaces to get the best bonding



SPECIFICATION

Material	Polychloroprene
Appearance	Black viscous liquid
Viscosity	2,000 - 3,000 cPs.
Solid content	24.00 - 26.00 %
High heat resistance	Approx. over 100 oC
Open tack time	Short
Application temp	Room temp
Converage (apply adhesive both surfaces)	200 - 220 g/m²



PACKING

CODE	SIZE	PACKING
TPGLUE 700	700 GR/CAN	12 cans/ Carton
TPGLUE 3500	3500 GR/Gallon	6 Gallons/ Carton

CAUTIONS

- Keep away from inflammable
- Use only in well ventilated areas
- Keep container tightly capped when not in use
- Avoid contact with eyes, skin and clothing, wash thoroughly after handling
- Keep in a cool, dry place



TYPICAL PROJECTS



TYPICAL PROJECTS

Projects in the North	
The Matrix One	My Dinh Ha Noi
Imperial Smart City	Tay Mo, Ha Noi
Mipec Xuan Thuy	Cau Giay, Ha Noi
TNR Tran Hung Dao	Hoan Kiem, Ha Noi
Masteri Water Front	Gia Lam, Ha Noi
BRG Oriental Plaza Lang Ha	Ba Dinh, Ha Noi
Vincom Megamall	Gia Lam, Tay Mo, Ha Noi
Vinhomes Ocean Park, Smart City	Gia Lam, Tay Mo, Ha Noi
Vinfast	Hai Phong, Ha Tinh
Me Linh Plaza	Thanh Hoa
Phenikaa Factory	Hoa Lac Hi - tech Park, Hanoi
ITM V3 Factory	VSIP Bac Ninh
TSE Factory	VSIP Bac Ninh
Citadines Marina	Ha Long
Sojo Hotel	Quang Ninh, Phu Tho, Hoa Binh
SEASTAR Hotel	Ha Long
Hoang Huy Commerce	Hai Phong
Danko city	Thai Nguyen
Shopping Center Go! (Big C)	Lao Cai, Thai Nguyen, Thai Binh
Construction Hospital	Ha Noi
Hanoi Toronto School	Ha Noi



Projects in the South	
Stella Vo Van Kiet	Binh Tan, Ho Chi Minh
An Phong Tower	Binh Thanh, Ho Chi Minh
Shopping Center Go! (Big C)	Ben Tre, Ba Ria
Sunbay Park	Ninh Thuan
UAC Factory	Danang hi-tech park, Da Nang
Regent Phu Quoc Resort	Phu Quoc
Fiore Healthy Resort	Phan Thiet
Tropicana Ho Tram	Vung Tau
Marvella Hotel	Nha Trang
Crowne Plaza Starbay	Phu Quoc
Grand World Hotel	Phu Quoc, Kien Giang
Metropole 1.13	District 2, Ho Chi Minh

