

AIDMER® JIANGXI AIDMER SEAL & PACKING CO.,LTD

PTFE CATALOGUE



About Us:

JiangXi Aidmer Seals & Packing Co., Ltd., Established in 2003, located in the landscape of Prime Minister Wen Jiabao captioned cities, JiuJiangShi wuning county.

AIDMER is the member of Fluoroplastics Processing Subcommittee China Plastics Processing Industry Association(FPSCPPIA) and China Plastics Processing Industry Association (CPPIA), More than 100 staffs now, Among them, With a number of practical experience,Ethical and Competent,Technician and administrative staffs. AIDMER is a research and development, production, sales for the integration of with Polymer Plastic as the core and with Fluorine Plastic products as the leading factor.

AIDMER company now has all kinds of processing equipment more than 60 (sets), formed the extrusion, pull, moulding rolling and a number of advanced production line,the main products are:

Fluorine plastic material:PTFE,PVDF,FEP,PFA 【Sheet, Rod, Pipe,Parts】 products etc.

Engineering plastic: POM,HDPE,UHMW-PE,NYLON,PU,PP 【Sheet, rods,Tube,Parts】 products etc.

Sealing material: all kinds of anticorrosive,acid,alkali-resistant,high temperature resistant sealing materials and products.

Quality Control:ISO 9001



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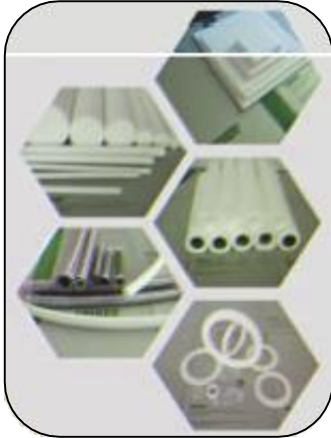
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Polytetrafluoroethylene (PTFE)



(Polytetrafluoroethylene)PTFE has excellent resistance to the majority of chemicals and solvents and is capable of operating at high and low temperatures. It also has a very low coefficient of friction and is commonly used in food contact applications. PTFE provides good thermal stability and has good electrical properties, but is not suitable for wear application and is difficult to bond.

PTFE has poor creep and wear resistance. These properties can be improved with the addition of a glass filler ; graphite filler;Carbon filler;Bronze filler. This filler improves dimensional stability, raises the heat deflection temperature and improves creep resistance.

Characteristics:

- Extremely good chemical resistance against virtually all media.
- Hot water resistant.
- Very good sliding properties.
- Anti-adhesive.
- Very good UV resistance.
- Very good electrical insulation.
- Soft.
- Difficult to bond.
- Gamma radiation sensitive.
- Self-extinguishing V-0.
- Non-melting.

Applications:

Pump housings, valve seats, gaskets, roller coverings, slide bearings, filter housings, etching plates, high frequency insulation, pump parts, shaft Seals, slide runners, chemical engineering, machine parts, transport and conveyor technology, pump and instrument construction, electrical industry, electronics, laser technology, fume purification, pure water production, cryogenics, filter technology, food and medical technology.

TYPICAL PHYSICAL:

PTFE Material	Virgin	Virgin PTFE	Reprocessed	Virgin PTFE Filled with:				
Filler	None	None	None	Glass Fiber	Bronze	Graphite	Carbon	Glass, MoS2
Filler Content By Weight	0%	0%	0%	25%	40%	10%	10%	23%, 2%
PROPERTIES								
Specific Gravity	2.2	2.2	2.16	2.22	3.3	2.13	2.13	2.25
Tensile Strength @ Break (PSI)	3,000	4,500	1,500	2,500	2,300	2,700	2,800	2,500
Elongation @ Break	200%	800%	75%	50%	60%	60%	50%	50%
Shore D Hardness	54	54	56	63	65	57	62	64
Dielectric (Volts/Mil)	1300	2100	600	-	-	-	-	-

PTFE SHEET

PTFE SHEET:

AIDMER78-021

SKIVED PTFE SHEET

AIDMER78-022

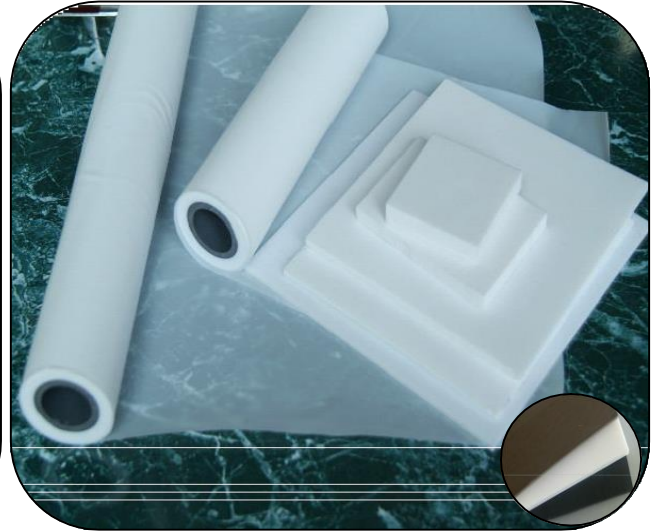
MOLDED PTFE SHEET

AIDMER78-023

PTFE FLIM

AIDMER78-052

(GF, G, C,B) FILLED PTFE SHEET



PURE PTFE SHEET has excellent resistance to the majority of chemicals and solvents and is capable of operating at high and low temperatures. It also has a very low coefficient of friction and is commonly used in food contact applications. It provides good thermal stability and has good electrical properties, but is not suitable for wear application and is difficult to bond.

Filled Ptfе Sheet filled grades offer a range of materials that expand on the properties of PTFE ,These properties can be improved with the addition of a glass filler ; graphite filler;Carbon filler;Bronze filler. This filler improves dimensional stability, raises the heat deflection temperature and improves creep resistance.

***PTFE sheet and tape can be given an etched surface suitable for adhesive bonding.**

Characteristics:

- Outstanding chemical resistance
- Superb electrical insulating properties
- A wide working temperature range from 260°C down to liquid nitrogen temperatures (-260°C)
- And a very low coefficient of friction, resulting in unique non-stick behaviour
- High dielectric properties
- Non-toxic

Specification:

Aidmer78-021 / 23

Skived Ptfе Sheet & Film

T.:0.1~12mm W.:0.3~2M L.:Any length

Aidmer78-022

Molded Ptfе Sheet

T.:3~60mm W.:0.3~2M L.:0.3~2M

Aidmer78-052

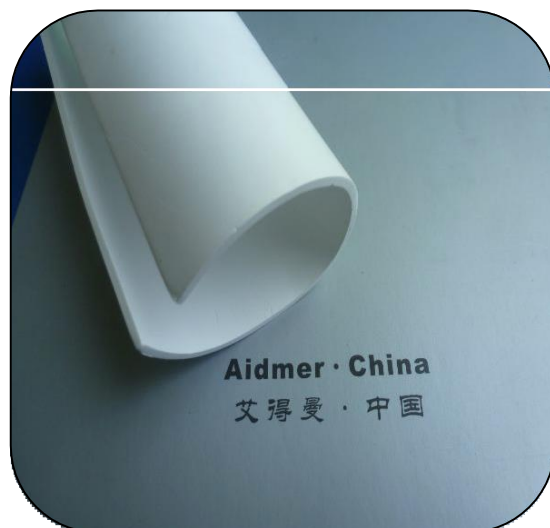
Filld Ptfе Sheet

T.:2~6mm W.:0.3~2M L.:Any length

T.:3~60mm W.:0.3~2M L.:0.3~2M

EXPANDED PTFE SHEET

Expanded PTFE Sheets are made of 100% ptfe by using special process that produces a uniform and highly fibrillated microstructure with a great lot of fibers running in multi directions. These create a soft and pliable, yet very tough gasket that has excellent resistance of pressing, creep relaxation and cold flow. It can seal the uneven and damaged flanges. possesses universal resistance against common chemicals, except melted alkali metal, fluorine at liquid and gas states. It is free from asbestos and other lung-intruding materials. It meets the FDA requirements.



Applications:

- Chemical manufacturing
- Food equipment manufacturing
- Pharmaceutical plants
- Petrochemical production
- Steel manufacturing Distilling
- Food and beverage processing
- Pulp and paper processing
- Power generation & Marine

Specification:

Aidmer78-024

Expanded Ptfе Sheet

T.:1/64", 1/32", 1/8", 3/16", 1/4"

W.: 60"

L. : 60"

Special size supply as requirement.

Technica Date:

Type	Description	Value
Temperature Limits	Minimum	-196℃
	Maximum	300℃
Color	White	
Density	g/cm3	1
Pressure	Mpa	20
PTFE		U PTFE

PTFE ROD

PTFE ROD

Aidmer 78-011
EXTRUDED PTFE ROD

Aidmer 78-012
MOLDED PTFE ROD

Aidmer 78-051
(GF, G, C,B) FILLED PTFE ROD



PTFE Rod is available in both virgin grades and reprocessed (mechanical) for less demanding applications. Surf Technologies extrudes rod in all standard sizes from 1/8th inch diameter up to 8 inches in diameter. The molded ptfе rod can get to 16 inches.

*For PTFE rods can be etched for bonding, and can be mounted on a plywood disk for less waste in machining. Also can be made with filled (reinforced) PTFE to enhance the performance parameters of PTFE. Materials available for reinforcement are Glass Fiber, Graphite, Carbon fiber, Bronze we can do.

Applications:

PTFE rod is generally used as machining stock for all kinds of chemical, electrical and mechanical components where the outstanding performance characteristics of PTFE are required. Various fillers are available to modify the properties of PTFE to meet application requirements.

Specification:

Aidmer78-011 Extruded Ptfе Rod	Dia3~200mm	L. : Any Length as requirement
Aidmer78-012 Molded Ptfе Rod	Dia10~400mm	L. : Max Length 300MM
Aidmer78-051 Filled Ptfе Rod	Dia10~400mm	L. : Max Length 300MM

PTFE TUBE/PIPE

PTFE TUBE

Aidmer78-031

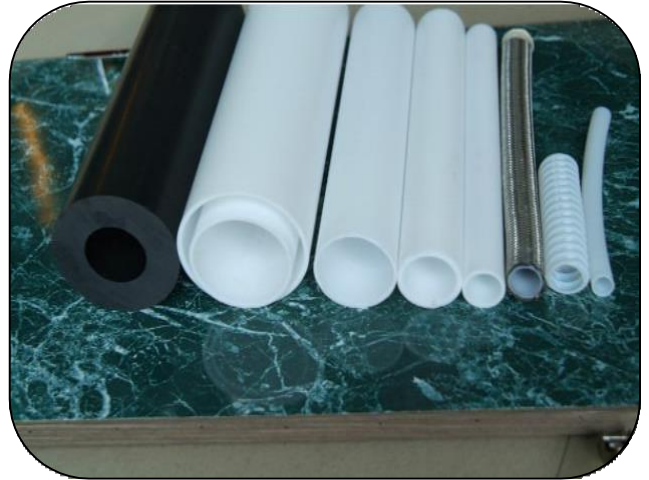
EXTRUDED PTFE TUBE

Aidmer78-032

MOLDED PTFE TUBE

Aidmer78-053

(GF,G,C,B) FILLED PTFE ROD



Extruded/Molded PTFE Pipe has a wide range of practicable temperature from -180°C~+260°C and a wax-like surface to which anything hardly sticks. Teflon Tube has the lowest coefficient of friction of all known solid materials. Teflon Tube has the best electrical properties of all plastic.

Filled PTFE tube is made with filled (reinforced) PTFE to enhance the performance parameters of PTFE. Materials available for reinforcement are Glass Fiber, Graphite, Carbon Fiber, Bronze we can do.

Application:

PTFE Pipe is used in fluid handling applications for high temperature acids and caustics or where contamination is an issue, such as in wire braided hose. In applications where PTFE's excellent insulating properties are needed heavy walled tube is the shape of choice, e.g. in spark plugs for stationary generators, coaxial spacers, connectors,. Because drilling a precise hole in longer PTFE lengths is impossible, extruded tube is the best way to insure uniform wall thickness throughout the length of the tube. Various fillers are available to modify the properties of PTFE to meet application requirements.

Specification:

Aidmer78-031 Extruded PTFE Tube	OD15~400mm	L. : Any Length as requirement
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Aidmer78-032 Molded PTFE Tube	OD40~300mm	L. : Max Length 300mm
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Aidmer78-053 Filled PTFE Tube	OD40~300mm	L. : Max Length 300mm
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Note: For our Extruded and Molded PTFE Mold in Page 11.

PTFE HOSE

Aidmer78-040
PTFE HOSE

Aidmer78-040C
PTFE CORRUGATION HOSE

Aidmer78-041
SS BRAIDED PTFE HOSE

Aidmer78-040CS
SS BRAIDED PTFE CORRUGATION HOSE

Characteristics:

- High physical strength combined with light weight.
- Suitable for wide temperature range (-180°C to 260°C)
- Good corrosion resistance. Resistance to fire, moisture, abrasion & penetration.
- Absorbs vibration and noise from pumps, compressors, engines etc.
- Compensates for thermal expansion or contraction of piping.
- Correct problems of misalignment.
- A flexible & quick alternative for rigid piping in difficult locations.

Application:

Dilute of concentrated acids, Solvents, caustics, Hot - lacquers, axiasing agents, Fuel Oils, Stream, Gases, Drugs, Food, Unaffceted by Most chemicals except molten alkali Metals.

PTFE GASKET / PARTS

PTFE GASKET / PARTS

Aidmer78-060

PTFE GASKET

Aidmer78-070

PTFE PARTS



Application:

Enhanced PTFE product have strong corrosion-resistance and friction-resistance. By adding filler such as glass fiber, carbon fiber, graphite, MOS2, Al2O3, Carbon fiber powder, compression strength and abrasion-resistance of the product is improved. In addition, it will have good heat conductivity and low heat expansion coefficient. High frequency coaxial coupling, Connector and attenuator in electronics and telecommunication, Also it is applicable to various sealing gasket, sealing plug or sealing seat in valves, air conditioner, refrigerator and automotive parts as well as other apparatus with high precision requirement.

Specification:

Inter	Φ mm 1~2000mm
Outer	Φ mm 2~2000mm
Thickness	T. mm 0.3~50mm

Filled Materials Graphite , Glass Fiber , Carbon fiber , Bronze
Any type the PTFE parts as customer drawing can provide.

PTFE SEALING

Aidmer76-012S / R
Expanded Ptfе Sealant

Aidmer76-041
Ptfе Thread Seal Tape

Aidmer76-029
Ptfе Packing

Aidmer76-024A
Graphite Ptfе Packing



Aidmer76-012 S/R

Expanded ptfе sealantis an idea sealant for most pipe fitting and equipments flanges sealing

Technical Data:

Temperature Range:-288 to +316C

Pressure Range: 30Mpa (4260 psi)

PH Value:0 to 14

Density: 0.7~0.8g./cm3 (43~49.5lbs./cu. ft.3)

Elongation: 20%

Creep Relaxation (ASTM F38): 51%

Sealability (ASTM F 37A): 0.1 ml/hr

Aidmer76-041

PTFE thread seal tape is an ideal material for pipe fitting,which is widely used in industrial and civil-construction, machinery, chemical&spece navigation especially in drainge system,and are chearecteristics of thread sealing,insulation,corrosion resistance antiaging,using on oxidizing agent for long term

Specification:

- 1) density: 0.15 - 2.0g/cm
- 2) width: 3 - 100mm
- 3) length: 5 - 50m
- 4) thickness: 0.075 - 0.2mm
- 5) color: white or colorful

Gland packing:

PTFE packing,Graphite packing,Aramid packing,Carbon fiber Packing,Synthetic fiber packing,Mineral fiber packing.. more 50 style.There were be widely used for dynamically sealing shafts,valves spinde,plungers,agitators,fans and so on. More

[More](#)

Size(MM)			Weight	Size(MM)			Weight
OD	ID	Length	(kgs/PC)	OD	ID	Length	(kgs/PC)
19	10	4200	2.02	55	45	4200	7.75
22	13	4200	2.44	68	46	4200	19.44
24	13	4200	3.16	56	50	4200	4.93
21	13.9	4200	1.92	60	50	4200	8.53
25	13.9	4200	3.35	62	50	4200	10.42
20	14	4200	1.58	80	50	4200	30.23
23	15	4200	2.36	100	50	4200	58.14
22	16	4200	1.77	59	55	4200	3.53
34	16	4200	6.98	65	55	4200	9.30
28	16	4200	4.09	75	55	4200	20.15
45	16	4200	13.71	70	60	4200	10.08
23	17	4200	1.86	75	60	4200	15.70
30	17	4200	4.74	80	60	4200	21.71
25	20	4200	1.74	90	60	4200	34.88
28	20	4200	2.98	102	62	4200	50.85
50	20	4200	16.28	73	64	4200	9.56
32	22	4200	4.19	80	65	4200	16.86
38	22	4200	7.44	85	70	4200	18.02
41	22	4200	9.28	90	70	4200	24.81
29	24	4200	2.05	100	70	4200	39.53
36	25	4200	5.20	110	70	4200	55.81
38	25	4200	6.35	81	71	4200	11.78
47	25	4200	12.28	90	71	4200	23.71
50	25	4200	14.53	90	75	4200	19.19
65	25	4200	27.91	90	80	4200	13.18
31	26	4200	2.21	95	80	4200	20.35
32	26	4200	2.70	100	80	4200	27.91
32	27	4200	2.29	85	81	4200	5.15
35	28	4200	3.42	100	85	4200	21.51
32	29	4200	1.42	120	90	4200	48.84
41	30	4200	6.05	128	90	4200	64.22
50	30	4200	12.40	105	95	4200	15.50
43	31	4200	6.88	116	100	4200	26.79
38	32	4200	3.26	125	100	4200	43.60
45	32	4200	7.76	140	100	4200	74.42
64	32	4200	23.81	140	110	4200	58.14
78	32	4200	39.22	135	115	4200	38.76
41	35	4200	3.53	160	115	4200	95.93
39	36	4200	1.74	145	130	4200	31.98
49	36	4200	8.57	164	143	4200	49.98
45	37	4200	5.09	190	145	4200	116.86
44	38	4200	3.81	175	160	4200	38.95
44	40	4200	2.60	185	165	4200	54.26
50	40	4200	6.98	200	170	4200	86.05
60	40	4200	15.50	200	180	4200	58.91
70	40	4200	25.58	400	376	4200	144.37
80	40	4200	37.21	400	384	4200	97.24
47	43	4200	2.79	400	396	4200	24.68

PTFE MOLDED TUBE MOLD SIZE

Size(MM)			Size(MM)			Size(MM)		
OD	ID	Length	OD	ID	Length	OD	ID	Length
40	20	150	85	55	200	140	80	300
40	15	150	85	60	200	140	100	300
45	20	150	85	65	200	140	110	300
45	25	150	90	30	200	140	120	300
45	35	150	90	35	200	150	80	300
45	20	200	90	40	200	150	95	300
45	25	200	90	50	200	150	110	300
45	30	200	90	60	200	150	120	300
50	35	200	90	70	200	150	130	300
50	20	200	95	45	200	160	90	300
50	25	200	95	50	200	160	100	300
50	30	200	95	60	200	160	120	300
55	35	200	95	65	200	160	130	300
60	15	200	100	40	300	170	130	300
60	20	200	100	45	300	170	140	300
60	25	200	100	50	300	170	150	300
60	30	200	100	60	300	180	85	300
60	35	200	100	70	300	180	90	300
60	40	200	100	80	300	180	100	300
65	30	200	110	40	300	180	120	300
65	35	200	110	45	300	180	130	300
65	40	200	110	50	300	180	150	300
65	45	200	110	60	300	180	160	300
65	50	200	110	70	300	190	140	300
70	30	200	110	80	300	190	170	300
70	35	200	110	90	300	200	50	300
70	40	200	120	35	300	200	100	300
70	45	200	120	50	300	200	120	300
70	50	200	120	60	300	200	140	300
75	25	200	120	70	250	200	150	300
80	30	200	120	80	300	200	160	300
80	35	200	120	90	300	200	180	300
80	40	200	120	100	300	210	100	300
80	45	200	130	50	300	210	130	300
80	50	200	130	60	300	210	160	300
80	55	200	130	80	300	230	90	300
80	60	200	130	85	300	230	140	300
85	25	200	130	90	300	230	150	300
85	30	200	130	100	300	230	160	300
85	35	200	130	110	300	230	180	300
85	40	200	140	50	300	230	190	300
85	45	200	140	60	300	250	190	300
85	50	200	140	70	300	300	250	300