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PTFE

PTFE has a wide range of practicable temperature from -180°C - +260°C and a wax-like surface to which anything hardly plastics. PTFE has the lowest coefficient of friction of all known solid materials. It has the best electrical properties of all plastics.

Properties	unit		Result		
Apparent density	g/cm ³		2.10-2.30		
Tensile strength (min)	MPa		15		
Ultimate elongation (min)	%		150		
Working Temp	°C		-180 ~ 260		
Melting point	°C		327		
Produce Max. Temp	°C		385		
Properties	ATM Method	Units	Virgin PTFE	Repr-PTFE	25% Glass PTFE
Specific Gravity	D792		2.14-2.20	2.15-2.20	220-230
Tensile Strength	D638	PSI	1500-3500	1500-2400	2000-3000
Tensile Strength	D638	PSI	1500-3500	1500-2400	2000-3000
Elongation	D638	%	250-350	75-200	100-260
Hardness	D1700	Durometer "D"	50-60	N/A	55-65
Deformation % 73 0 F, 1500 psi, 24 hours	D621	N/A	4~8	N/A	1.73
Deformation % 100 0 F, 1500 psi, 24 hours	D621	N/A	10~18	N/A	1.91
Deformation % 200 0 F, 1500 psi, 24 hours	D621	N/A	20-25	N/A	4.57
Impact Strength, Izod 730 0 F Average	D256	Ft./Lb./In.	3	N/A	2.54
170 0 F Average			6		3.69
Water Absorption	D570	%	0.001	N/A	0.013
Coefficient of Friction (Static) 73 0 F	*3	N/A	0.04	N/A	0.085
Dielectric Constant (100 CPS)	D150	N/A	2	2.26	2.4
Dielectric Strength (4) (air)	D257	Volts	1000	450	235
Coefficient of Thermal Expansion 73 0 F	D696	In./In./Ft.	5.5 x 10.3	N/A	2.75 x 10.3
Coefficient of Thermal Conductivity	*5	Btu/hr/ftz	1.7	N/A	3.12
PV at 900 ft./min	N/A	N/A	2500	N/A	15,000
Color	*6	N/A	white	off white	brownish white

Note: PTFE was widely used as a resistant high & low temperature material, corrosion-resistant materials, insulation materials in the atomic energy, defense, aerospace, electronics, electrical, chemical industry, machinery, instruments, meters, construction, textile, metal surface treatment, pharmaceutical, medical, food, and metallurgical smelting industry, and become irreplaceable products.

PTFE Sheet

Term	Product Code	T. (mm)	W. (mm)	L. (mm)	Kgs/M ²
PTFE Sheet	TS00010	0.1	1000	1000	0.23
PTFE Sheet	TS00020	0.2	1000	1000	0.46
PTFE Sheet	TS00030	0.3	1000	1000	0.69
PTFE Sheet	TS00040	0.4	1000	1000	0.92
PTFE Sheet	TS00050	0.5	1000	1000	1.15
PTFE Sheet	TS00060	0.6	1000	1000	1.38
PTFE Sheet	TS00080	0.8	1000	1000	1.84
PTFE Sheet	TS00100	1	1000	1000	2.3
PTFE Sheet	TS00150	1.5	1000	1000	3.45
PTFE Sheet	TS00200	2	1000	1000	4.6
PTFE Sheet	TS00250	2.5	1000	1000	5.75
PTFE Sheet	TS00300	3	1000	1000	6.9
PTFE Sheet	TS00350	3.5	1000	1000	8.05
PTFE Sheet	TS00400	4	1000	1000	9.2
PTFE Sheet	TS00450	4.5	1000	1000	10.35
PTFE Sheet	TS00500	5	1000	1000	11.5
PTFE Sheet	TS00550	5.5	1000	1000	12.65
PTFE Sheet	TS00600	6	1000	1000	13.8
PTFE Sheet	TS00650	6.5	1000	1000	14.95
PTFE Sheet	TS00700	7	1000	1000	16.1
PTFE Sheet	TS00750	7.5	1000	1000	17.25
PTFE Sheet	TS00800	8	1000	1000	18.4
PTFE Sheet	TS00850	8.5	1000	1000	19.55
PTFE Sheet	TS01000	10	1000	1000	23
PTFE Sheet	TS01200	12	1000	1000	27.6
PTFE Sheet	TS01300	13	1000	1000	29.9
PTFE Sheet	TS01500	15	1000	1000	34.5
PTFE Sheet	TS01600	16	1000	1000	36.8
PTFE Sheet	TS01800	18	1000	1000	41.4
PTFE Sheet	TS02000	20	1000	1000	46
PTFE Sheet	TS02200	22	1000	1000	50.6
PTFE Sheet	TS02500	25	1000	1000	57.5
PTFE Sheet	TS02800	28	1000	1000	64.4
PTFE Sheet	TS03000	30	1000	1000	69
PTFE Sheet	TS03500	35	1000	1000	80.5
PTFE Sheet	TS04000	40	1000	1000	92
PTFE Sheet	TS04500	45	1000	1000	103.5
PTFE Sheet	TS05000	50	1000	1000	115
PTFE Sheet	TS05500	55	1000	1000	126.5
PTFE Sheet	TS06000	60	1000	1000	138
PTFE Sheet	TS07000	70	1000	1000	161
PTFE Sheet	TS08000	80	1000	1000	184
PTFE Sheet	TS09000	90	1000	1000	207
PTFE Sheet	TS10000	100	1000	1000	230

PTFE Rod

Term	Product Code	Dia. (mm)	L. (mm)	kg/PC
PTFE Rod	TR00100	1	1000	0.0018
PTFE Rod	TR00200	2	1000	0.0072
PTFE Rod	TR00300	3	1000	0.0163
PTFE Rod	TR00400	4	1000	0.0289
PTFE Rod	TR00500	5	1000	0.0452
PTFE Rod	TR00600	6	1000	0.065
PTFE Rod	TR00700	7	1000	0.0885
PTFE Rod	TR00800	8	1000	0.12
PTFE Rod	TR00900	9	1000	0.15
PTFE Rod	TR01000	10	1000	0.18
PTFE Rod	TR01200	12	1000	0.26
PTFE Rod	TR01300	13	1000	0.31
PTFE Rod	TR01500	15	1000	0.41
PTFE Rod	TR01600	16	1000	0.46
PTFE Rod	TR01800	18	1000	0.59
PTFE Rod	TR02000	20	1000	0.72
PTFE Rod	TR02200	22	1000	0.87
PTFE Rod	TR02500	25	1000	1.13
PTFE Rod	TR02800	28	1000	1.42
PTFE Rod	TR03000	30	1000	1.63
PTFE Rod	TR03200	32	1000	1.85
PTFE Rod	TR03500	35	1000	2.21
PTFE Rod	TR04000	40	1000	2.89
PTFE Rod	TR04500	45	1000	3.66
PTFE Rod	TR05000	50	1000	4.52
PTFE Rod	TR05500	55	1000	5.46
PTFE Rod	TR06000	60	1000	6.5
PTFE Rod	TR06500	65	1000	7.63
PTFE Rod	TR07000	70	1000	8.85
PTFE Rod	TR07500	75	1000	10.16
PTFE Rod	TR08000	80	1000	11.56
PTFE Rod	TR09000	90	1000	14.63
PTFE Rod	TR10000	100	1000	18.06
PTFE Rod	TR11000	110	1000	21.86
PTFE Rod	TR12000	120	1000	26.01
PTFE Rod	TR13000	130	1000	30.53
PTFE Rod	TR14000	140	1000	35.4
PTFE Rod	TR15000	150	1000	40.64
PTFE Rod	TR16000	160	1000	46.24
PTFE Rod	TR17000	170	1000	52.2
PTFE Rod	TR18000	180	1000	58.53
PTFE Rod	TR19000	190	1000	65.21
PTFE Rod	TR20000	200	1000	72.25
PTFE Rod	TR22000	220	300	26.23
PTFE Rod	TR25000	250	300	33.87
PTFE Rod	TR26000	260	300	36.63
PTFE Rod	TR28000	280	300	42.49
PTFE Rod	TR30000	300	300	48.77
PTFE Rod	TR35000	350	300	66.38

PTFE Tube

Term	OD. (mm)	ID. (mm)	L. (mm)	kg/pc
PTFE Tube	19	10	4200	1.98
PTFE Tube	20	14	4200	1.55
PTFE Tube	22	13	4200	2.39
PTFE Tube	24	13	4200	3.09
PTFE Tube	21	13.9	4200	1.88
PTFE Tube	25	13.9	4200	3.28
PTFE Tube	23	15	4200	2.31
PTFE Tube	22	16	4200	1.73
PTFE Tube	24	13	4200	3.09
PTFE Tube	34	16	4200	6.83
PTFE Tube	28	16	4200	4.01
PTFE Tube	45	16	4200	13.42
PTFE Tube	23	17	4200	1.82
PTFE Tube	30	17	4200	4.64
PTFE Tube	25	20	4200	1.71
PTFE Tube	28	20	4200	2.91
PTFE Tube	50	20	4200	15.93
PTFE Tube	32	22	4200	4.1
PTFE Tube	38	22	4200	7.28
PTFE Tube	41	22	4200	9.08
PTFE Tube	29	24	4200	2.01
PTFE Tube	36	25	4200	5.09
PTFE Tube	38	25	4200	6.21
PTFE Tube	47	25	4200	12.02
PTFE Tube	50	25	4200	14.23
PTFE Tube	65	25	4200	27.31
PTFE Tube	31	26	4200	2.16
PTFE Tube	32	26	4200	2.64
PTFE Tube	32	27	4200	2.24
PTFE Tube	35	28	4200	3.35
PTFE Tube	32	29	4200	1.39
PTFE Tube	41	30	4200	5.93
PTFE Tube	50	30	4200	12.14
PTFE Tube	43	31	4200	6.74
PTFE Tube	38	32	4200	3.19
PTFE Tube	45	32	4200	7.59
PTFE Tube	64	32	4200	23.31
PTFE Tube	78	32	4200	38.39
PTFE Tube	41	35	4200	3.46
PTFE Tube	39	36	4200	1.71
PTFE Tube	49	36	4200	8.38
PTFE Tube	45	37	4200	4.98
PTFE Tube	44	38	4200	3.73
PTFE Tube	44	40	4200	2.55
PTFE Tube	50	40	4200	6.83
PTFE Tube	60	40	4200	15.17
PTFE Tube	70	40	4200	25.04
PTFE Tube	80	40	4200	36.42
PTFE Tube	47	43	4200	2.73

PTFE Tube	55	45	4200	7.59
PTFE Tube	68	46	4200	19.03
PTFE Tube	56	50	4200	4.83
PTFE Tube	60	50	4200	8.35
PTFE Tube	62	50	4200	10.2
PTFE Tube	80	50	4200	29.59
PTFE Tube	100	50	4200	56.9
PTFE Tube	59	55	4200	3.46
PTFE Tube	65	55	4200	9.1
PTFE Tube	75	55	4200	19.73
PTFE Tube	70	60	4200	9.86
PTFE Tube	75	60	4200	15.36
PTFE Tube	80	60	4200	21.24
PTFE Tube	90	60	4200	34.14
PTFE Tube	102	62	4200	49.77
PTFE Tube	73	64	4200	9.35
PTFE Tube	80	65	4200	16.5
PTFE Tube	85	70	4200	17.64
PTFE Tube	90	70	4200	24.28
PTFE Tube	100	70	4200	38.69
PTFE Tube	110	70	4200	54.62
PTFE Tube	81	71	4200	11.53
PTFE Tube	90	71	4200	23.21
PTFE Tube	90	75	4200	18.78
PTFE Tube	90	80	4200	12.9
PTFE Tube	95	80	4200	19.92
PTFE Tube	100	80	4200	27.31
PTFE Tube	85	81	4200	5.04
PTFE Tube	100	85	4200	21.05
PTFE Tube	120	90	4200	47.8
PTFE Tube	128	90	4200	62.85
PTFE Tube	105	95	4200	15.17
PTFE Tube	116	100	4200	26.22
PTFE Tube	125	100	4200	42.68
PTFE Tube	140	100	4200	72.83
PTFE Tube	140	110	4200	56.9
PTFE Tube	135	115	4200	37.93
PTFE Tube	160	115	4200	93.89
PTFE Tube	145	130	4200	31.3
PTFE Tube	164	143	4200	48.91
PTFE Tube	190	145	4200	114.37
PTFE Tube	175	160	4200	38.12
PTFE Tube	185	165	4200	53.11
PTFE Tube	200	170	4200	84.21
PTFE Tube	200	180	4200	57.66
PTFE Tube	400	376	4200	141.3
PTFE Tube	400	384	4200	95.17
PTFE Tube	400	396	4200	24.16
PTFE Tube	340	110	1000	186.96
PTFE Tube	330	110	1000	174.86
PTFE Tube	320	110	1000	163.11
PTFE Tube	310	110	1000	151.73