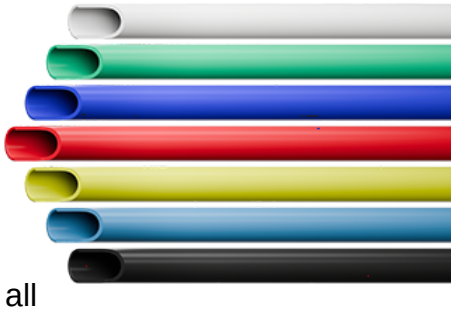
PTFE TUBE



Key Properties of PTFE :

- Polytetrafluoroethylene (P.T.F.E) has the lowest coefficient of friction of all polymers
- Useful in high temperature applications
- Very good chemical resistance to all common solvents, acids and bases
- PTFE is virtually unaffected by oxygen, ozone and UV light
- Excellent dielectric insulation properties
- The working temperature of PTFE is extremely broad, ranging from 260° C (500° F) to -270° C (-454° F)

Note : All of our tubing can be supplied in colors with enhancing fillers and also with color stripes we can provide the tubes. We also supply Convoluted tubes, Conductive PTFE Plain and PTFE Conductive Convoluted tubes kindly refer our part nomenclature before ordering. Also special sizes are available on request.

Property		Specification	Unit	Value
General	Continuous service temperature	Maximum	° C	260
General	Continuous service temperature	Maximum	° F	500
General	Chemical resistance	-	-	Excellent
General	Specific gravity	D 792	-	2.15
Electrical	Dielectric constant	D 150 at 10^3 Hz	-	2.1
Electrical	Dielectric constant	D 150 at 10^6 Hz	-	2.1
Electrical	Dielectric dissipation factor	D 150 at 10^3 Hz	-	0.0002
Electrical	Dielectric dissipation factor	D 150 at 10^6 Hz	-	0.0002
Electrical	Dielectric strength (short term) 10 mils film	D 149	Volt / mil	>1 400
Electrical	Volume resistivity	D 257	Ohm·cm	>10^ 18
Environmental	Water absorption	D 570	%	0.01
Environmental	Weather resistance	-	-	Excellent
Environmental	Oxygen index	D 2863	%	>95
Environmental	Flammability	UL 94	-	V-0
Mechanical	Tensile strength	D 1708, D 638	psi	3 500
Mechanical	Elongation	D 1708, D 638	%	300
Mechanical	Compressive strength	D 695	psi	3 500
Mechanical	Impact strength	D 256 at +23°C	Ft-Lb / in	3.5
Mechanical	Flexural Modulus	D 790 at +23°C	psi	90 000
Mechanical	Tensile Modulus	D 638	psi	80 000
Mechanical	Hardness	D 2240	-	D-60
Thermal	Melting point	-	° C	327
Thermal	Melting point	-	° F	620
Thermal	Thermal conductivity	C-177	BTU / hr / ft2 /°F. in	1.7
Thermal	Deflection temperature 66 psi	D 648	° C	122
Thermal	264 psi	D 648	° C	55
Thermal	Deflection temperature 66 psi	D 648	° F	252
Thermal	264 psi	D 648	° F	131

Technical Details

Metric Size

Item Code	ID	OD	WT	BP	W
	mm	mm	mm	bar	g/m
18-0040000300NT	3.00	4.00	0.50	40	13
18-0045000300NT	3.00	4.50	0.75	56	21
18-0050000300NT	3.00	5.00	1.00	70	30
18-0045000350NT	3.50	4.50	0.50	35	15
18-0050000350NT	3.50	5.00	0.75	49	24
18-0055000350NT	3.50	5.50	1.00	62	34
18-0050000400NT	4.00	5.00	0.50	31	17
18-0055000400NT	4.00	5.50	0.75	44	27
18-0060000400NT	4.00	6.00	1.00	56	38
18-0070000400NT	4.00	7.00	1.50	76	63
18-0065000450NT	4.50	6.50	1.00	51	42
18-0060000500NT	5.00	6.00	0.50	25	21
18-0065000500NT	5.00	6.50	0.75	37	33
18-0070000500NT	5.00	7.00	1.00	47	46
18-0080000500NT	5.00	8.00	1.50	65	74
18-0090000500NT	5.00	9.00	2.00	80	106
18-0075000550NT	5.50	7.50	1.00	43	49
18-0070000600NT	6.00	7.00	0.50	22	25
18-0080000600NT	6.00	8.00	1.00	40	53
18-0090000600NT	6.00	9.00	1.50	56	85
18-0100000600NT	6.00	10.00	2.00	70	122
18-0080000650NT	6.50	8.00	0.75	29	41
18-0080000700NT	7.00	8.00	0.50	19	28
18-0090000700NT	7.00	9.00	1.00	35	61
18-0100000700NT	7.00	10.00	1.50	49	97
18-0095000750NT	7.50	9.50	1.00	33	65
18-0090000800NT	8.00	9.00	0.50	16	32
18-0095000800NT	8.00	9.50	0.75	24	50
18-0100000800NT	8.00	10.00	1.00	31	68
18-0120000800NT	8.00	12.00	2.00	56	152
18-0105000850NT	8.50	10.50	1.00	29	72
18-0100000900NT	9.00	10.00	0.50	15	36
18-0105000900NT	9.00	10.50	0.75	22	56
18-0110000900NT	9.00	11.00	1.00	28	76
18-0120000900NT	9.00	12.00	1.50	40	120
18-0110001000NT	10.00	11.00	0.50	13	40
18-0120001000NT	10.00	12.00	1.00	25	84
18-0130001000NT	10.00	13.00	1.50	37	131
18-0140001000NT	10.00	14.00	2.00	47	182
18-0150001000NT	10.00	15.00	2.50	56	237
18-0130001100NT	11.00	13.00	1.00	23	91
18-0140001200NT	12.00	14.00	1.00	22	99
18-0150001200NT	12.00	15.00	1.50	31	154
18-0160001200NT	12.00	16.00	2.00	40	213
18-0150001300NT	13.00	15.00	1.00	20	106
18-0160001300NT	13.00	16.00	1.50	29	165
18-0170001300NT	13.00	17.00	2.00	37	228
18-0160001400NT	14.00	16.00	1.00	19	114
18-0170001400NT	14.00	17.00	1.50	27	177

Item Code	ID	OD	WT	BP	W
	mm	mm	mm	bar	g/m
18-0180001400NT	14.00	18.00	2.00	35	243
18-0170001500NT	15.00	17.00	1.00	18	122
18-0180001500NT	15.00	18.00	1.50	25	188
18-0180001600NT	16.00	18.00	1.00	16	129
18-0190001600NT	16.00	19.00	1.50	24	199
18-0200001600NT	16.00	20.00	2.00	31	274
18-0195001650NT	16.50	19.50	1.50	23	205
18-0200001700NT	17.00	20.00	1.50	23	211
18-0200001800NT	18.00	20.00	1.00	15	144
18-0210001800NT	18.00	21.00	1.50	22	222
18-0220001800NT	18.00	22.00	2.00	28	304
18-0210001900NT	19.00	21.00	1.00	14	152
18-0220001900NT	19.00	22.00	1.50	20	234

Imperial Size

Item Code	ID		OD		WT	BP	W
	inch	mm	inch	mm	inch	bar	g/m
18-0048000320NT	1/8	3.20	3/16	4.80	1/32	56	24
18-0064000320NT	1/8	3.20	1/4	6.40	1/16	93	58
18-0064000400NT	5/32	4.00	1/4	6.40	3/64	65	47
18-0064000480NT	3/16	4.80	1/4	6.40	1/32	40	34
18-0079000480NT	3/16	4.80	5/16	7.90	1/16	70	75
18-0079000640NT	1/4	6.40	5/16	7.90	1/32	31	41
18-0095000640NT	1/4	6.40	3/8	9.50	1/16	56	94
18-0127000640NT	1/4	6.40	1/2	12.70	1/8	93	229
18-0095000790NT	5/16	7.90	3/8	9.50	1/16	25	53
18-0111000950NT	3/8	9.50	7/16	11.10	1/32	21	63
18-0127000950NT	3/8	9.50	1/2	12.70	1/16	40	135
18-0127001110NT	7/16	11.10	1/2	12.70	1/32	19	72
18-0143001270NT	1/2	12.70	9/16	14.30	1/32	16	82
18-0159001270NT	1/2	12.70	5/8	15.90	1/16	31	174
18-0159001430NT	9/16	14.30	5/8	15.90	1/32	15	92
18-0175001590NT	5/8	15.90	11/16	17.50	1/32	13	102
18-0191001590NT	5/8	15.90	3/4	19.10	1/16	25	213
18-0191001750NT	11/16	17.50	3/4	19.10	1/32	12	111
18-0222301910NT	3/4	19.10	7/8	22.23	1/16	22	246