

GENERAL REFERENCE

Maximum recommended working pressures for PEEK tubing

PEEK TUBING											
OD	ID (µm)	bar	psi	OD	ID (mm)	bar	psi	OD	ID (mm)	bar	psi
360 µm	50	358	5200	1/32"	0.050	455	6600	1/16"	0.050	480	7000
	75	345	5000		0.064	455	6600		0.064	480	7000
	100	300	4400		0.075	455	6600		0.075	470	6800
	125	275	4000		0.100	455	6600		0.100	460	6700
	150	240	3500		0.13	414	6000		0.13	460	6700
			0.15		400	5800	0.18		440	6400	
			0.18		386	5600	0.25		420	6100	
			0.20		369	5350	0.50		345	5000	
			0.25		338	4900	0.75		262	3800	
			0.38		269	3900	1.00		179	2600	
			0.50	207	3000	1.40	55	800			
						1/8"	0.75	379	5500		
							1.59	248	3600		
							2.00	179	2600		
						1/4"	3.17	227	3300		

Maximum recommended working pressures for polymeric tubing

FEP TUBING											
OD	ID (mm)	bar	psi	OD	ID (mm)	bar	psi	OD	ID (mm)	bar	psi
1/32"	0.10	82	1200	1/16"	0.10	124	1800	1/8"	1.59	69	1000
	0.13	78	1100		0.13	124	1800		2.10	41	600
	0.15	78	1100		0.15	117	1700	3/16"	3.18	41	600
	0.18	72	1050		0.18	117	1700	1/4"	4.35	45	650
	0.25	68	980		0.20	117	1700	1.0 mm	0.50	62	900
	0.38	51	750		0.25	117	1700	2.0 mm	1.00	62	900
	0.50	35	500		0.50	96	1400	3.0 mm	1.00	82	1200
			0.75		76	1100	2.00	41	600		
			1.00		52	750					

ETFE TUBING			
OD	ID (mm)	bar	psi
1/32"	0.25	152	2200
1/16"	0.17	200	2900
	0.25	186	2700
	0.50	152	2200
	0.75	117	1700
	1.00	83	1200
1/8"	1.59	110	1600
3.0 mm	1.00	138	2000
6.0 mm	4.00	69	1000

PFA TUBING			
OD	ID (µm)	bar	psi
360 µm	50	103	1500
	75	96	1400
	100	90	1300
	150	75	1100

OD	ID (mm)	bar	psi
1/16"	0.50	100	1450
	0.75	76	1100
	1.00	55	800
1/8"	1.59	72	1050
	1.70	65	940
3/16"	3.20	41	600
1/4"	4.35	45	650

PTFE TUBING			
OD	ID (mm)	bar	psi
1/16"	0.18	62	900
	0.25	55	800
	0.50	48	700
	0.75	37	550
	1.00	25	350
1/8"	1.59	35	500
	2.40	18	250
1/4"	4.75	17	250
2.0 mm	1.70	10	150
4.0 mm	3.00	17	250
4.76 mm	3.76	14	200

WORKING PRESSURE FOR POLYMERIC TUBING

The quoted maximum working pressure(s) were calculated from the burst pressure and the factor 2.5.