

PFA FEP and ETFE Tubing Pressure Rating Tables - Tech Informaton

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PFA Tubing (PerFlourAlkoxy)

All of Applied Research PFA capillaries are extruded from virgin PFA manufactured exclusively by Dupont. We do not add any additives to the original PTFE material, except for color particles in the solid-colored tubing. PFA tubing and capillaries do not contain micro-pores in the tubing wall to the same extend as PTFE tubing and capillaries.

P/N	Description	Pressure bar/psi)
43.159.050.00	Tubing, PFA, 1/16" OD x 0.50 mm ID	100 / 1450
43.159.075.00	Tubing, PFA, 1/16" OD x 0.75 mm ID	75 / 1075
43.159.100.00	Tubing, PFA, 1/16" OD x 1.00 mm ID	55 / 800
43.318.159.00	Tubing, PFA, 1/8" OD x 1/16" ID	75 / 1075

Tolerances for PFA tubing and capillaries is as follows:

up to 2.0 mm: +/- 0.05 mm

2.0 mm and above: +/- 0.10 mm

FEP Tubing (Fluorinated Ethylene Propylene)

All of Applied Research FEP capillaries are extruded from virgin FEP.

FEP is especially useful in ion chromatography applications. Do not use FEP above 80C.

P/N	Description	Pressure (bar/psi)
44.159.050.00	Tubing, FEP, 1/16" OD x 0.25 mm ID	115 /1650
44.159.050.00	Tubing, FEP, 1/16" OD x 0.50 mm ID	95 / 1375

44.159.075.00	Tubing, FEP, 1/16" OD x 0.75 mm ID	75 / 1075
44.159.100.00	Tubing, FEP, 1/16" OD x 1.00 mm ID	50 / 725
44.318.159.00	Tubing, FEP, 1/8" OD x 1/16" ID	70 / 1000
44.635.435.00	Tubing, FEP, 1/4" OD x 4.35 mm ID	45 / 650

Tolerances for FEP tubing and capillaries is as follows:

up to 2.0 mm: +/- 0.05 mm

2.0 mm and above: +/- 0.10 mm

ETFE Tubing (TEFZEL)

All of Applied Research ETFE tubing and capillaries are extruded from virgin ETFE. We do not add any additives to the original ETFE material.

ETFE tubing and capillaries are widely used in all low- and medium pressure laboratory applications due to the relatively high burst-pressure.

Please be aware that ETFE tubing is not resistant to all chemicals. Some organic solvents may cause swelling and reduce the pressure stability.

P/N	Description	Pressure (bar/psi)
45.080.025.00	Tubing, ETFE, 1/32" OD x 0.25 mm ID	150 / 2150
45.159.018.00	Tubing, ETFE, 1/16" OD x 0.18 mm ID	200 / 2900
45.159.025.00	Tubing, ETFE, 1/16" OD x 0.25 mm ID	185 / 2675
45.159.050.00	Tubing, ETFE, 1/16" OD x 0.50 mm ID	150 / 2175
45.159.075.00	Tubing, ETFE, 1/16" OD x 0.75 mm ID	115 / 1625
45.159.100.00	Tubing, ETFE, 1/16" OD x 1.00 mm ID	85 / 1225
45.318.159.00	Tubing, ETFE, 1/8" OD x 1/16" ID	110 / 1600

Tolerances for ETFE tubing and capillaries is as follows:

up to 2.0 mm: +/- 0.05 mm

2.0 mm and above: +/- 0.10 mm

Note: The data collected in column 'Pressure' show the recommended permanent maximum working pressure at room temperature for non-destructive solvents.

Change of solvents and temperature may result in lowered mechanical stability.

Keep in mind that tight bends of the tubing, use of wrong tools for cutting and bad connections may result in mechanical damage to the tube and by this reduce the pressure stability.

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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900

Fax: (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com