

GROUNDWATER SAMPLING TUBING

KEY ADVANTAGES

- Premium FEP inner liner compliant with FDA21 CFR 177.1550 and NSF51
- Multi-layer construction
- Good chemical resistance at inner liner
- Physical toughness of outer jacket
- Cost efficient solution due to unique jacketing process
- No plasticizer used (no fluid leaching)
- Ideal for VOC testing in groundwater
- Complies with EPA SESDPROC-301-R1f experience

Our tubing is available in all standard sizes between ID 1,6 mm (1/8") and 12,7 mm (1/2"), however custom dimensions can be made upon request. While our production lengths are standard, we can also produce long continuous length to meet your requirements.

APPLICATIONS

- Designed for groundwater sampling
- Inert FEP ensures the purity of the water sample and outer jacket made of LDPE supports the structure but keeps it flexible.
- More cost-effective than full FEP tubing and can be supplied with additional armor over the LDPE to prevent external damage

DIMENSION EXAMPLES

OD (in/mm)	ID (in/mm)	Liner wall (in/mm)	Bend. Radius (in/mm)	Burst pressure at 70°F
0.250 / 6.35	0.125 / 3.18	0.010 / 0.25	1.00 / 25.40	85
0.250 / 6.35	0.170 / 4.32	0.010 / 0.25	1.50 / 38.10	80
0.250 / 6.35	0.188 / 4.76	0.010 / 0.25	2.00 / 50.80	75
0.313 / 7.94	0.250 / 6.35	0.010 / 0.25	2.00 / 50.80	7
0.375 / 9.53	0.250 / 6.35	0.010 / 0.25	2.00 / 50.80	55
0.438 / 11.12	0.375 / 9.53	0.012 / 0.31	3.50 / 88.90	50

Contact our sales offices or visit our website for more information about sample and specifications!

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FEP MATERIAL PROPERTIES

	Property	Specification	Unit	
General	Continuous service temperature	Maximum	°C	200
		Maximum	°F	392
	Chemical resistance			Excellent
	Specific gravity	D 792		2.15
Electrical	Dielectric constant	D 150 at 10 ³ Hz		2.1
		D 150 at 10 ⁶ Hz		2.1
	Dielectric dissipation factor	D 150 at 10 ³ Hz		0.0001
		D 150 at 10 ⁶ Hz		0.0008
	Dielectric strength	D 149	Volt/mil	2 000
	Volume resistivity	D 257	Ohm • cm	> 10 ¹⁸
Environmental	Water absorption	D 570	%	< 0.01
	Weather resistance			Excellent
	Oxygen index	D 2863	%	> 95
	Flammability	UL 94		V-0
Mechanical	Tensile strength	D 1708, D 638	MPa	24.1
	Elongation	D 1708, D 638	%	300
	Compressive strength	D 695	MPa	15.2
	Impact strength	D 256 at 23°C	Ft-Lb/in	No Break
	Flexural modulus	D 790 at 23°C	MPa	654.6
	Tensile modulus	D 638	MPa	344.5
	Hardness	D 2240		D-55
Thermal	Melting point		°C	270
			°F	518
	Thermal conductivity	C-177	BTU/hr/ft ² /°F.in	1.4
	Deflection temperature			
	66 psi	D 648	°C	59
	264 psi	D 648	°C	57
	Deflection temperature			
	66 psi	D 648	°F	138
	264 psi	D 648	°F	134

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